



(12) **DEMANDE DE BREVET CANADIEN
CANADIAN PATENT APPLICATION**

(13) **A1**

(86) Date de dépôt PCT/PCT Filing Date: 2020/12/18
(87) Date publication PCT/PCT Publication Date: 2021/06/24
(85) Entrée phase nationale/National Entry: 2022/06/02
(86) N° demande PCT/PCT Application No.: IB 2020/062227
(87) N° publication PCT/PCT Publication No.: 2021/124279
(30) Priorités/Priorities: 2019/12/20 (US62/951,221);
2020/08/12 (US63/064,502)

(51) Cl.Int./Int.Cl. *C07D 401/12* (2006.01),
A61K 31/506 (2006.01), *C07D 401/14* (2006.01),
C07D 413/14 (2006.01)

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(54) Titre : COMPOSES ACTIFS VIS-A-VIS DES RECEPTEURS NUCLEAIRES

(54) Title: COMPOUNDS ACTIVE TOWARDS NUCLEAR RECEPTORS

(57) Abrégé/Abstract:

Disclosed are compounds active towards nuclear receptors, pharmaceutical compositions containing the compounds and use of the compounds in therapy.

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Date Submitted: 2022/06/02

CA App. No.: 3160508

Abstract:

Disclosed are compounds active towards nuclear receptors, pharmaceutical compositions containing the compounds and use of the compounds in therapy.

COMPOUNDS ACTIVE TOWARDS NUCLEAR RECEPTORS

Cross Reference to Related Applications

This application claims the priority benefit under 35 U.S.C. § 119(e) of U.S. Provisional Patent Application No. 62/951,221, filed December 20, 2019 and U.S. Provisional Patent Application No. 63/064,502, filed August 12, 2020 the disclosures of which is incorporated herein by reference in their entirety.

Field

Aspects and embodiments described herein relate to compounds active towards nuclear receptors, pharmaceutical compositions comprising the compounds, and methods of treating inflammatory, metabolic, oncologic and autoimmune diseases or disorders using the compounds.

Background

Nuclear receptors are a family of transcription factors involved in the regulation of physiological functions, such as cell differentiation, embryonic development, and organ physiology. Nuclear receptors have also been identified as important pathological regulators in diseases such as cancer, diabetes, and autoimmune disorders.

Examples of nuclear receptors include the nuclear retinoic acid receptor-related orphan receptors (RORs). RORs contain four principal domains: an N-terminal A/B domain, a DNA-binding domain, a hinge domain and a ligand binding domain. Binding of ligands to the ligand-binding domain is believed to cause conformational changes in the domain resulting in downstream actions. Different isoforms exist and these isoforms differ in their N-terminal A/B domain only (Jetten, 2009, Nuclear Receptor Signaling).

RORs consist of three members, namely ROR alpha (ROR α or RORa), ROR beta (ROR β or RORb) and ROR gamma (ROR γ or RORc).

ROR α is expressed in many tissues such as cerebellar Purkinje cells, the liver, thymus, skeletal muscle, skin, lung, adipose tissue and kidney. ROR α regulates neuronal cell development, bone metabolism, and arteriosclerosis (Jetten, 2009, Nuclear Receptor Signaling). Additionally, ROR α plays a role in the immune responses, such as in the regulation of interleukin (IL) 17A expression in T helper (Th) 17 cells and the function of T regulatory (Treg) cells (Castro PLOS 2017; Malhotra 2018).

ROR β exhibits a restriction pattern of expression limited to certain regions of brain (cerebral cortex, thalamus, hypothalamus and pineal gland) as well as retina (Jetten, 2009, Nuclear Receptor Signaling). ROR β has been related to epilepsy and together with RORa also to bipolar disease (Rudolf 2016; Lai 2015).

ROR γ shows a broad expression pattern and was the most recently discovered of the three members. To date two different protein isoforms have been recorded: ROR γ 1 and ROR γ 2 (ROR γ 2 is also known as ROR γ t). Generally ROR γ is used to describe ROR γ 1 and/or ROR γ t.

ROR γ 1 is expressed in many tissues and is predominantly expressed in the kidneys, liver, and skeletal muscle. In contrast, expression of ROR γ t is restricted to some cell types of the immune system and to lymphoid organs such as the thymus and secondary lymphoid tissues (Hirose 1994; Jetten, 2009, Nuclear Receptor Signaling).

5 ROR γ t has been identified as a key regulator of Th17 cell differentiation and IL-17 production by $\gamma\delta$ T cells, Th17 cells, T cytotoxic (Tc) 17 cells and innate lymphoid cells type 3 (ILC3) cells (Gaffen 2014). Th17 cells are a subset of T helper cells which preferentially produce the cytokines IL-17A, IL-17F, IL-21 and IL-22 (Castro PLOS 2017). T cells lacking ROR γ t failed to differentiate into Th17 cells even under Th17-polarizing culture conditions, 10 while over-expression of ROR γ t in naïve CD4⁺ T cells was sufficient to accelerate the expression of Th17-related cytokines and chemokines (Gaffen 2014, Nat Rev Immunol; Yang 2014, Trend Pharmacol Sci). IL-23 is a vital checkpoint in the generation, maintenance and activation of pathogenic Th17 cells. In response to IL-23 signals, ROR γ t cooperates with a network of transcription factors (STAT3, IRF4 and BATF) to initiate the complete 15 differentiation program of Th17 cells (Gaffen 2014, Nat Rev Immunol).

Th17 cells and IL-17 immune response have been shown to be associated with the pathology of many human inflammatory and autoimmune disorders. Therapeutic strategies targeting the IL-23–IL-17 axis are being developed in many autoimmune diseases, and some of them have already demonstrated to provide clinical efficacy some diseases (Patel 2015; 20 Krueger 2018 Exp Dermatol) .

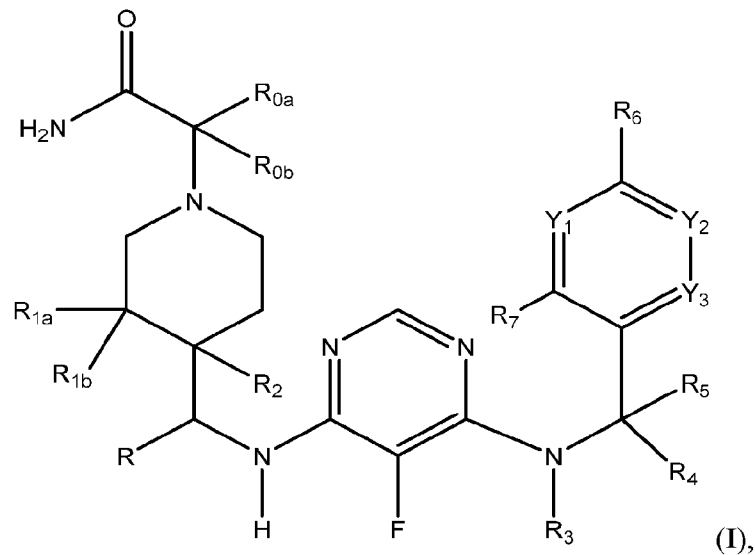
There is thus evidence that ROR α , ROR β and ROR γ play a role in the pathogenesis of many diseases.

It would be desirable to provide compounds that modulate the activity of ROR α and/or ROR γ for use in treating inflammatory, metabolic and autoimmune diseases.

25 WO2016020288 and WO2016020295 describe compounds that modulate the activity or ROR γ receptors. However, a need still exists for potent ROR γ modulators having improved physico-chemical properties.

Summary

In one aspect provided herein are compounds of Formula (I)



a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer, wherein:

5 Y_1 , Y_2 and Y_3 are independently N or CR₈;

R is selected from the group consisting of hydrogen, C₁₋₆ alkyl, and C₁₋₄ hydroxyalkyl;

10 R_{0a} and R_{0b} independently are selected from the group consisting of hydrogen, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ haloalkyl, CN, substituted or unsubstituted heteroalicycyl and substituted or unsubstituted heteroaryl;

R_{1a} and R_{1b} are independently selected from the group consisting of hydrogen, hydroxyl, halogen, amino, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, and C₁₋₄ haloalkyl;

15 R_2 is selected from the group consisting of hydrogen, hydroxyl, amino, cyano, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C(=O)OH, C(=O)NH₂, C(=O)O-C₁₋₄ alkyl, and substituted or unsubstituted heteroaryl;

R_3 is selected from the group consisting of C₁₋₄ alkyl, C₂₋₄ alkenyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ alkylene-C₁₋₄ alkoxy, substituted or unsubstituted C₃₋₇ cycloalkyl, and substituted or unsubstituted C₃₋₇ cycloalkenyl;

20 R_4 and R_5 are each independently hydrogen or C₁₋₄ alkyl, or R_4 and R_5 are taken together with the carbon atom to which they are attached to form a C₃₋₄ cycloalkyl;

R_6 is selected from the group consisting of hydrogen, CN, halogen, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl;

R₇ is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl;

each R₈ independently is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl; and

whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ is selected from the group consisting of CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl; and

when substituted, a heteroalicycyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, hydroxy, C₁₋₄ alkoxy, and halogen; and

when substituted, a heteroaryl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, cyano, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy and C₁₋₆ hydroxyhaloalkyl; and

when substituted, a cycloalkyl or cycloalkenyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl and halogen.

In one aspect provided herein are pharmaceutical compositions comprising a compound of Formula (I) or a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer of Formula (I) and at least one pharmaceutical acceptable excipient.

In one aspect provided herein are compounds of Formula (I) or a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer of Formula (I), or pharmaceutical compositions thereof for use in treatment and/or prevention of a disease or disorder or a symptom thereof selected from the group consisting of asthma, acne, chronic obstructive pulmonary disease (COPD), bronchitis, atherosclerosis, helicobacter pylori infection, allergic diseases including allergic rhinitis, allergic conjunctivitis and uveitis, sprue and food allergy, atopic dermatitis, lichen planus, cystic fibrosis, lung allograft rejection, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, ichthyoses, bullous diseases, hidradenitis suppurativa,

steatosis, steatohepatitis, non-alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH), lupus erythematosus, Hashimoto's disease, pancreatitis, autoimmune diabetes, autoimmune ocular disease, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD), inflammatory bowel syndrome (IBS), Sjogren's syndrome, optic neuritis, type I diabetes, neuromyelitis optica, Myasthenia Gravis, Guillain-Barre syndrome, Graves' disease, scleritis, obesity, obesity-induced insulin resistance, type II diabetes, and cancer.

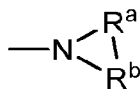
Further, advantageous features of various embodiments are defined in the dependent claims and within the detailed description below.

Detailed description of preferred embodiments

Definitions

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as is commonly understood by one of ordinary skill in the art. All patents, applications, published applications and other publications referenced herein are incorporated by reference in their entirety. In the event that there are a plurality of definitions for a term herein, those in this section prevail unless stated otherwise.

As used herein, any "R" group(s) such as, without limitation, R, R_{0a}, R_{0b}, R_{1a}, R_{1b}, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, and R₁₀, represent substituents that can be attached to the indicated atom. Examples of R groups includes but is not limited to hydrogen, hydroxy, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, and heteroalicycyl. If two "R" groups are covalently bonded to the same atom or to adjacent atoms, then they may be "taken together" or "combined" as defined herein to form a cycloalkyl, aryl, heteroaryl or heteroalicycyl group. For example, without limitation, if R_a and R_b of an NR_aR_b group are indicated to be "taken together" or "combined", it means that they are covalently bonded to one another at their terminal atoms to form a ring that includes the nitrogen:



As readily recognized by the skilled person, any given group disclosed herein may comprise further hydrogen(s) than the one(s) provided by a R-group, being hydrogen, attached to the group.

Whenever a group is described as being "unsubstituted or substituted," if substituted, the substituent(s) (which may be present one or more times, such as 1, 2, 3 or 4 times) are independently selected from alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo,

alkoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, arylthio, cyano, halogen, carbonyl, thiocarbonyl, C-amido, N-amido, S-sulfonamido, N-sulfonamido, nitro, silyl, sulfenyl, sulfinyl, sulfonyl, haloalkyl, hydroxyalkyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof. When a substituent on a group is deemed to be “substituted,” the substituent itself is substituted with one or more of the indicated substituents. When the referenced substituent is substituted, it is meant that one or more hydrogen atoms on the referenced substituent may be replaced with a group(s) individually and independently selected from alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, arylthio, cyano, halogen, carbonyl, thiocarbonyl, C-amido, N-amido, S-sulfonamido, N-sulfonamido, nitro, silyl, sulfenyl, sulfinyl, sulfonyl, haloalkyl, hydroxyalkyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof. The protecting groups that may form the protective derivatives of the above substituents are known to those of skill in the art and may be found in references Greene and Wuts, Protective Groups in Organic Synthesis, 3rd Ed., John Wiley & Sons, New York, NY, 1999, which is hereby incorporated by reference in its entirety.

As used herein, “C_m to C_n,” “C_m-C_n” or “C_{m-n}” in which “m” and “n” are integers refers to the number of carbon atoms in the relevant group. That is, the group can contain from “m” to “n”, inclusive, carbon atoms. Thus, for example, a “C₁ to C₆ alkyl” group refers to all alkyl groups having from 1 to 6 carbons, that is, CH₃-, CH₃CH₂-, CH₃CH₂CH₂-, (CH₃)₂CH-, CH₃CH₂CH₂CH₂-, CH₃CH₂CH(CH₃)-, CH₃CH(CH₃)₃CH₂-, CH₃CH(CH₃)₃CH₂- and (CH₃)₃C-. If no “m” and “n” are designated with regard to a group, the broadest range described in these definitions is to be assumed.

As used herein, “alkyl” refers to a straight or branched hydrocarbon chain group that is fully saturated (no double or triple bonds). The alkyl group may have 1 to 20 carbon atoms (whenever it appears herein, a numerical range such as “1 to 20” refers to each integer in the given range; *e.g.*, “1 to 20 carbon atoms” means that the alkyl group may consist of 1 carbon atom, 2 carbon atoms, 3 carbon atoms, *etc.*, up to and including 20 carbon atoms, although the present definition also covers the occurrence of the term “alkyl” where no numerical range is designated). The alkyl group may also be a medium size alkyl having 1 to 10 carbon atoms, such as “C₁₋₆”. The alkyl group could also be a lower alkyl having 1 to 4 carbon atoms. The alkyl group of the compounds may be designated as “C₁-C₄ alkyl,” “C₁₋₄ alkyl” or similar

designations. By way of example only, “C₁-C₄ alkyl” or “C₁₋₄ alkyl” indicates that there are one to four carbon atoms in the alkyl chain, i.e., the alkyl chain is selected from the group consisting of methyl, ethyl, propyl, iso-propyl, n-butyl, iso-butyl, sec-butyl, and t-butyl. Typical alkyl groups include, but are in no way limited to, methyl, ethyl, propyl, isopropyl, 5 butyl, isobutyl, tertiary butyl, pentyl, hexyl, and the like. When substituted, the substituent group(s) is(are) one or more group(s) individually and independently selected from alkenyl, alkynyl, cycloalkyl including but not limited to cyclopropyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy including but not limited to methoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, 10 arylthio, cyano, halogen including but not limited to fluoro, carbonyl, thiocarbonyl, C-amido, N-amido, S-sulfonamido, N-sulfonamido, nitro, silyl, sulfenyl, sulfinyl, sulfonyl, haloalkyl, hydroxyalkyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof.

As used herein, “alkenyl” refers to an alkyl group that contains in the straight or 15 branched hydrocarbon chain one or more double bonds. If more than one double bond is present, the double bonds may be conjugated or not conjugated. The alkenyl group may have 2 to 20 carbon atoms (whenever it appears herein, a numerical range such as “2 to 20” refers to each integer in the given range; *e.g.*, “2 to 20 carbon atoms” means that the alkenyl group may consist of 2 carbon atoms, 3 carbon atoms, 4 carbon atoms, *etc.*, up to and including 20 20 carbon atoms, although the present definition also covers the occurrence of the term “alkenyl” where no numerical range is designated). When substituted, the substituent group(s) is(are) one or more group(s) individually and independently selected from alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy, mercapto, alkylthio, cyano, halogen, nitro, 25 haloalkyl, hydroxyalkyl, haloalkoxy, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof.

As used herein, “alkynyl” refers to an alkyl group that contains in the straight or branched hydrocarbon chain one or more triple bonds. The alkynyl group may have 2 to 20 carbon atoms (whenever it appears herein, a numerical range such as “2 to 20” refers to each 30 integer in the given range; *e.g.*, “2 to 20 carbon atoms” means that the alkynyl group may consist of 2 carbon atoms, 3 carbon atoms, 4 carbon atoms, *etc.*, up to and including 20 carbon atoms, although the present definition also covers the occurrence of the term “alkynyl” where no numerical range is designated). An alkynyl group may be unsubstituted or substituted.

When substituted, the substituent(s) may be selected from the same groups disclosed above with regard to alkenyl group substitution.

As used herein, “hetero” may be attached to a group and refers to one or more carbon atom(s) and the associated hydrogen atom(s) in the attached group have been independently replaced with the same or different heteroatoms selected from nitrogen, oxygen, phosphorus and sulfur.

As used herein, “heteroalkyl,” by itself or in combination with another term, refers to a straight or branched alkyl group consisting of the stated number of carbon atoms, where one or more carbon atom(s), such as 1, 2, 3 or 4 carbon atom(s), and the associated hydrogen atom(s) have been independently replaced with the same or different heteroatoms selected from nitrogen, oxygen and sulfur. The carbon atom(s) being replaced may be in the middle or at the end of the alkyl group. Examples of heteroalkyl include C₁₋₆ heteroalkyl wherein one or more of the carbon atom(s) has been replaced by a heteroatom selected from the group consisting of nitrogen, oxygen and sulfur, examples are, -S-alkyl, -O-alkyl, -NH-alkyl, -alkylene-O-alkyl, etc. A heteroalkyl may be substituted.

As used herein, “aryl” refers to a carbocyclic (all carbon) ring or two or more fused rings (rings that share two adjacent carbon atoms) that have a fully delocalized pi-electron system. In some embodiments described herein the aryl group is a C₁₋₁₀ aryl, which may be substituted or unsubstituted. Examples of aryl groups include, but are not limited to, benzene, naphthalene and azulene. An aryl group may be substituted. When substituted, hydrogen atoms are replaced by substituent group(s) that is(are) one or more group(s) independently selected from alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, arylthio, cyano, halogen, carbonyl, thiocarbonyl, C-amido, N-amido, S-sulfonamido, N-sulfonamido, nitro, silyl, sulfenyl, sulfinyl, sulfonyl, haloalkyl, hydroxyalkyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof. When substituted, substituents on an aryl group may form a non-aromatic ring fused to the aryl group, including a cycloalkyl, cycloalkenyl, cycloalkynyl, and heterocyclyl.

As used herein, “heteroaryl” refers to a monocyclic or polycyclic aromatic ring system (a ring system with fully delocalized pi-electron system), in which at least one of the atoms in the ring system is a heteroatom, that is, an element other than carbon, including but not limited to, nitrogen, oxygen and sulfur. In some embodiments described herein the heteroaryl includes, but is not limited to, C₆₋₁₀ heteroaryl, wherein one to four carbon atoms is/are replaced by one

to four heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur. Examples of monocyclic “heteroaryl” include, but are not limited to, furan, thiophene, phthalazine, pyrrole, oxazole, oxadiazole including but not limited to 1, 2, 4-oxadiazole and 1, 3, 4-oxadiazole, thiazole, imidazole, pyrazole, isoxazole, isothiazole, triazole including but not limited to 1, 2, 4-triazole and 1, 2, 3-triazole, thiadiazole, pyridine, pyridazine, pyrimidine, pyrazine, tetrazole, and triazine. Examples of multicyclic “heteroaryl” include, but are not limited to, quinoline, isoquinoline, quinazoline, quinoxaline, indole, purines, benzofuran, benzothiophene, benzopyranones (e.g. coumarin, chromone, and isocoumarin). A heteroaryl may be substituted. When substituted, hydrogen atoms are replaced by substituent group(s) that is(are) one or more group(s) independently selected from alkyl including but not limited to methyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, arylthio, cyano, halogen, carbonyl, thiocarbonyl, C-amido, N-amido, S-sulfonamido, N-sulfonamido, nitro, silyl, sulfenyl, sulfinyl, sulfonyl, haloalkyl, hydroxyalkyl including but not limited to 2-hydroxyethyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof. When substituted, substituents on a heteroaryl group may form a non-aromatic ring fused to the aryl group, including a cycloalkyl, cycloalkenyl, cycloalkynyl, and heterocyclyl.

An “aralkyl” or “arylalkyl” is an aryl group connected, as a substituent, via an alkylene group. The alkylene and aryl group of an aralkyl may be substituted. Examples include but are not limited to benzyl, substituted benzyl, 2-phenylethyl, 3-phenylpropyl, and naphthylalkyl. In some cases, the alkylene group is a lower alkylene group.

A “heteroaralkyl” or “heteroarylalkyl” is heteroaryl group connected, as a substituent, via an alkylene group. The alkylene and heteroaryl group of heteroaralkyl may be substituted. Examples include but are not limited to 2-thienylmethyl, 3-thienylmethyl, furylmethyl, thienylethyl, pyrrolylalkyl, pyridylalkyl, isoxazolylalkyl, pyrazolylalkyl and imidazolylalkyl, and their substituted as well as benzo-fused analogs. In some cases, the alkylene group is a lower alkylene group.

An “alkylene” is a straight-chained tethering group, forming bonds to connect molecular fragments via their terminal carbon atoms. The alkylene may have 1 to 20 carbon atoms. The alkylene may also be a medium size alkylene having 1 to 10 carbon atoms, such as “C₁₋₆” The alkylene could also be a lower alkylene having 1 to 4 carbon atoms. The alkylene may be designated as “C₁-C₄ alkylene”, “C₁₋₄ alkylene” or similar designations. Non-limiting

examples include, methylene (-CH₂-), ethylene (-CH₂CH₂-), propylene (-CH₂CH₂CH₂-), and butylene (-(CH₂)₄-) groups. In the case of methylene, the two connected fragments are connected to the same carbon atom. A lower alkylene group may be substituted.

As used herein, “heteroalkylene” by itself or in combination with another term refers to an alkylene group consisting of the stated number of carbon atoms in which one or more of the carbon atoms, such as 1, 2, 3 or 4 carbon atom(s), are independently replaced with the same or different heteroatoms selected from oxygen, sulfur and nitrogen. Examples of heteroalkylene include, but not limited to -CH₂-O-, -CH₂-CH₂-O-, -CH₂-CH₂-CH₂-O-, -CH₂-NH-, -CH₂-CH₂-NH-, -CH₂-CH₂-CH₂-NH-, -CH₂-CH₂-NH-CH₂-, -O-CH₂-CH₂-O-CH₂-CH₂-O-, -O-CH₂-CH₂-O-CH₂-CH₂-, and the like.

As used herein, “alkylidene” refers to a divalent group, such as =CR'R'', which is attached to one carbon of another group, forming a double bond. Alkylidene groups include, but are not limited to, methylidene (=CH₂) and ethylidene (=CHCH₃). As used herein, “arylalkylidene” refers to an alkylidene group in which either R' or R'' is an aryl group. An alkylidene group may be substituted.

As used herein, “alkoxy” refers to the group -OR wherein R is an alkyl, e.g. methoxy, ethoxy, n-propoxy, cyclopropoxy, 1-methylethoxy (isopropoxy), n-butoxy, iso-butoxy, sec-butoxy, tert-butoxy, amoxy, tert-amoxy and the like. An alkoxy may be substituted.

As used herein, “alkylthio” refers to the formula -SR wherein R is an alkyl is defined as above, e.g. methylmercapto, ethylmercapto, n-propylmercapto, 1-methylethylmercapto (isopropylmercapto), n-butylmercapto, iso-butylmercapto, sec-butylmercapto, tert-butylmercapto, and the like. An alkylthio may be substituted.

As used herein, “aryloxy” and “arylthio” refers to RO- and RS-, in which R is an aryl as defined above, e.g., phenoxy, naphthalenyloxy, azulenyloxy, anthracenyloxy, naphthalenylthio, phenylthio and the like. Both an aryloxy and arylthio may be substituted.

As used herein, “alkenyloxy” refers to the formula -OR wherein R is an alkenyl as defined above, e.g., vinyloxy, propenyloxy, n-butenyloxy, iso-butenyloxy, sec-pentenyl, tert-pentenyl, and the like. The alkenyloxy may be substituted.

As used herein, “acyl” refers to a hydrogen, alkyl, alkenyl, alkynyl, or aryl connected, as substituents, via a carbonyl group. Examples include formyl, acetyl, propanoyl, benzoyl, and acryl. An acyl may be substituted.

As used herein, “cycloalkyl” refers to a completely saturated (no double bonds) mono- or multi- cyclic hydrocarbon ring system. When composed of two or more rings, the rings may be joined together in a fused, bridged or spiro-connected fashion. Cycloalkyl groups may range

from C₃ to C₁₀, such as from C₃ to C₆. A cycloalkyl group may be unsubstituted or substituted. Typical cycloalkyl groups include, but are in no way limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, and the like. If substituted, the substituent(s) may be independently selected from an alkyl, including but not limited to methyl, or a halogen, including but not limited to fluoro, or may be selected from those indicated above with regard to substitution of an alkyl group unless otherwise indicated. When substituted, substituents on a cycloalkyl group may form an aromatic ring fused to the cycloalkyl group, including an aryl and a heteroaryl.

As used herein, "cycloalkenyl" refers to a cycloalkyl group that contains one or more double bonds in the ring although, if there is more than one, they cannot form a fully delocalized pi-electron system in the ring (otherwise the group would be "aryl," as defined herein). When composed of two or more rings, the rings may be connected together in a fused, bridged or spiro-connected fashion. Cycloalkenyl groups may range from C₃ to C₁₀, such as from C₃ to C₈ or from C₅ to C₁₀. For example, C₃₋₈ cycloalkenyl includes C₄₋₈ cycloalkenyl, C₅₋₈ cycloalkenyl or C₆₋₈ cycloalkenyl. A cycloalkenyl group may be unsubstituted or substituted. When substituted, the substituent(s) may be an alkyl or selected from the groups disclosed above with regard to alkyl group substitution unless otherwise indicated. When substituted, substituents on a cycloalkenyl group may form an aromatic ring fused to the cycloalkenyl group, including an aryl and a heteroaryl.

As used herein, "cycloalkynyl" refers to a cycloalkyl group that contains one or more triple bonds in the ring. When composed of two or more rings, the rings may be joined together in a fused, bridged or spiro-connected fashion. Cycloalkynyl groups may range from C₈ to C₁₂. A cycloalkynyl group may be unsubstituted or substituted. When substituted, the substituent(s) may be an alkyl or selected from the groups disclosed above with regard to alkyl group substitution unless otherwise indicated. When substituted, substituents on a cycloalkynyl group may form an aromatic ring fused to the cycloalkynyl group, including an aryl and a heteroaryl.

As used herein, "heteroalicyclic" or "heteroalicyclic" refers to a 3- to 18 membered ring which consists of carbon atoms and from one to five heteroatoms selected from the group consisting of nitrogen, oxygen and sulfur. The heteroalicyclic or heteroalicyclic groups may range from C₂ to C₁₀, in some embodiments it may range from C₂ to C₉, and in other embodiments it may range from C₂ to C₈. In some embodiments The "heteroalicyclic" or "heteroalicyclic" may be monocyclic, bicyclic, tricyclic, or tetracyclic ring system, which may be joined together in a fused, bridged or spiro-connected fashion; and the nitrogen, carbon and

sulfur atoms in the “heteroalicyclic” or “heteroalicycyl” may be oxidized; the nitrogen may be quaternized; and the rings may also contain one or more double bonds provided that they do not form a fully delocalized pi-electron system throughout all the rings, examples are 2H-benzo[b][1,4]oxazin-3(4H)-one, 3,4-dihydroquinolin-2(1H)-one, 1,2,3,4-tetrahydroquinoline, 3,4-dihydro-2H-benzo[b][1,4]oxazine, 2,3-dihydrobenzo[d]oxazole, 2,3-dihydro-1H-benzo[d]imidazole, indoline, and 1,3-dihydro-2H-benzo[d]imidazol-2-one, and benzo[d]oxazol-2(3H)-one. Heteroalicycyl groups may be unsubstituted or substituted. When substituted, the substituent(s) may be one or more groups independently selected from the group consisting of alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicycyl, aralkyl, heteroaralkyl, (heteroalicycyl)alkyl, hydroxy, oxo, alkoxy, aryloxy, acyl, ester, O-carboxy, mercapto, alkylthio, arylthio, cyano, halogen, C-amido, N-amido, S-sulfonamido, N-sulfonamido, isocyanato, thiocyanato, isothiocyanato, nitro, silyl, haloalkyl, hydroxyalkyl, haloalkoxy, trihalomethanesulfonyl, trihalomethanesulfonamido, and amino, including mono- and di-substituted amino groups, and the protected derivatives thereof. Examples of such “heteroalicyclic” or “heteroalicycyl” include but are not limited to, azepinyl, dioxolanyl, imidazolanyl, morpholinyl, oxetanyl, oxiranyl, piperidinyl *N*-Oxide, piperidinyl, piperazinyl, pyrrolidinyl, pyranyl, 4-piperidonyl, pyrazolidinyl, 2-oxopyrrolidinyl, tetrahydrofuranyl, tetrahydropyranyl, thiamorpholinyl, thiamorpholinyl sulfoxide, and thiamorpholinyl sulfone. When substituted, substituents on a heteroalicycyl group may form an aromatic ring fused to the heteroalicycyl group, including an aryl and a heteroaryl.

A “(cycloalkyl)alkyl” is a cycloalkyl group connected, as a substituent, via an alkylene group. The alkylene and cycloalkyl of a (cycloalkyl)alkyl may be substituted. Examples include but are not limited cyclopropylmethyl, cyclobutylmethyl, cyclopropylethyl, cyclopropylbutyl, cyclobutylethyl, cyclopropylisopropyl, cyclopentylmethyl, cyclopentylethyl, cyclohexylmethyl, cyclohexylethyl, cycloheptylmethyl, and the like. In some cases, the alkylene group is a lower alkylene group.

A “(cycloalkenyl)alkyl” is a cycloalkenyl group connected, as a substituent, via an alkylene group. The alkylene and cycloalkenyl of a (cycloalkenyl)alkyl may be substituted. In some cases, the alkylene group is a lower alkylene group.

A “(cycloalkynyl)alkyl” is a cycloalkynyl group connected, as a substituent, via an alkylene group. The alkylene and cycloalkynyl of a (cycloalkynyl)alkyl may be substituted. In some cases, the alkylene group is a lower alkylene group.

As used herein, “halo” or “halogen” refers to F (fluoro), Cl (chloro), Br (bromo) or I (iodo).

As used herein, “haloalkyl” refers to an alkyl group in which one or more of the hydrogen atoms are replaced by halogen. Such groups include but are not limited to, chloromethyl, fluoromethyl, difluoromethyl, trifluoromethyl, 1,1-difluoroethyl, 2-fluoroethyl, 1-chloro-2-fluoromethyl and 2-fluoroisobutyl. A haloalkyl may be substituted or unsubstituted, and some embodiments relate to a medium size haloalkyl having 1 to 10 carbon atoms, such as C₁₋₆ haloalkyl.

As used herein, “haloalkoxy” refers to a RO-group in which R is a haloalkyl group. Such groups include but are not limited to, chloromethoxy, fluoromethoxy, difluoromethoxy, trifluoromethoxy and 1-chloro-2-fluoromethoxy, 2-fluoroisobutyloxy. A haloalkoxy may be substituted.

As used herein, the term “hydroxyalkyl” refers to an alkyl group in which one or more of the hydrogen atoms are replaced by a hydroxyl group. Such groups include but are not limited to hydroxymethyl, hydroxyethyl, including but not limited to 2-hydroxyethyl, hydroxypropyl, hydroxybutyl, hydroxypentyl and hydroxyhexyl. A hydroxyalkyl group may be substituted or unsubstituted, and some embodiments relate to a medium size hydroxyalkyl having 1 to 10 carbon atoms, such as C₁₋₆ hydroxyalkyl; when substituted the substituents may be one or more groups independently selected from the group consisting of halogen, including but not limited to fluoro, and haloalkyl, including but not limited to trifluoromethyl; such substituted “hydroxyalkyl” groups include but are not limited to 1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl and 1,1-difluoro-2-hydroxyethyl.

An “O-carboxy” group refers to a “RC(=O)O-” group in which R can be hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heteroalicyclic, aralkyl, or (heteroalicyclic)alkyl, as defined herein. An O-carboxy may be substituted.

A “C-carboxy” group refers to a “-C(=O)OR” group in which R can be the same as defined with respect to O-carboxy. A C-carboxy may be substituted.

A “trihalomethanesulfonyl” group refers to an “X₃CSO₂-” group wherein X is a halogen.

A dashed bond, ----, represents an optional unsaturation between the atoms forming the bond. This bond may be unsaturated (e.g. C=C, C=N, C=O) or saturated (e.g. C-C, C-N, C-O). When a dashed bond is present in a ring system it may form part of an aromatic ring system.

As used herein, a straight (unwedged) bolded or hashed bond, **—** or **|||||**, refers to relative stereochemistry inclusive of all possible stereoisomers at that position.

As used herein, and unless otherwise indicated, a wedged-bond (bolded, hashed, or otherwise), **—**, **≡**, or **|||||**, refers to absolute stereochemistry referring to the particular stereoisomer as depicted at that position.

A “nitro” group refers to a “-NO₂” group.

A “cyano” group refers to a “-CN” group.

A “cyanato” group refers to an “-OCN” group.

An “isocyanato” group refers to a “-NCO” group.

10 A “thiocyanato” group refers to a “-SCN” group.

A “carbonyl” group refers to a “-C(=O)-“ group.

A “thiocarbonyl” group refers to a “-C(=S)-“ group.

An “oxo” group refers to a “=O” group.

A “hydroxy” group or “hydroxyl” group refers to an “-OH” group.

15 An “isothiocyanato” group refers to an “-NCS” group.

A “sulfinyl” group refers to an “-S(=O)-R” group in which R can be the same as defined with respect to O-carboxy. A sulfinyl may be substituted.

A “sulfonyl” group refers to an “SO₂R” group in which R can be the same as defined with respect to O-carboxy. A sulfonyl may be substituted.

20 An “S-sulfonamido” group refers to a “-SO₂NR_AR_B” group in which R_A and R_B indendently of each other can be the same as defined with respect to the R group as defined for O-carboxy, or combined to form a ring system selected from the group consisting of substituted or unsubstituted C₃₋₈ cycloalkyl, substituted or unsubstituted C₃₋₈ cycloalkenyl, substituted or unsubstituted C₃₋₈ cycloalkyl, substituted or unsubstituted C₃₋₈ cycloalkenyl substituted or unsubstituted heteroalicycyl, substituted or unsubstituted aryl, and substituted or unsubstituted heteroaryl. A S-sulfonamido may be substituted.

An “N-sulfonamido” group refers to a “RSO₂N(R)-“ group in which R and R_A indendently of each other can be the same as defined with respect to the R group as defined for O-carboxy. An N-sulfonamido may be substituted.

30 A “trihalomethanesulfonamido” group refers to an “X₃CSO₂N(R)-“ group with X as halogen and R can be the same as defined with respect to O-carboxy. A trihalomethanesulfonamido may be substituted.

A “C-amido” group refers to a “-C(=O)NR_AR_B” group in which R_A and R_B indendently of each other can be the same as defined with respect to the R group as defined for O-carboxy,

or combined to form a ring system selected from the group consisting of substituted or unsubstituted C₃₋₈ cycloalkyl, substituted or unsubstituted C₃₋₈ cycloalkenyl, substituted or unsubstituted C₃₋₈ cycloalkyl, substituted or unsubstituted C₃₋₈ cycloalkenyl substituted or unsubstituted heteroalicycyl, substituted or unsubstituted aryl, and substituted or unsubstituted heteroaryl. A C-amido may be substituted.

An “N-amido” group refers to a “RC(=O)NR_A” group in which R and R_A indendently of each other can be the same as defined with respect to the R group as defined for O-carboxy. An N-amido may be substituted.

An “ester” refers to a “-C(=O)OR” group in which R can be the same as defined with respect to O-carboxy. An ester may be substituted.

A lower alkoxyalkyl refers to an alkoxy group connected via a lower alkylene group. A lower alkoxyalkyl may be substituted.

An “amine” or “amino” refers to “RNH₂” (a primary amine), “R₂NH” (a secondary amine), “R₃N” (a tertiary amine). An amino group may be substituted.

A lower aminoalkyl refers to an amino group connected via a lower alkylene group. A lower aminoalkyl may be substituted.

Any unsubstituted or monosubstituted amine group on a compound herein can be converted to an amide, any hydroxyl group can be converted to an ester and any carboxyl group can be converted to either an amide or ester using techniques well-known to those skilled in the art (see, for example, Greene and Wuts, Protective Groups in Organic Synthesis, 3rd Ed., John Wiley & Sons, New York, NY, 1999).

As used herein, the abbreviations for any protective groups, amino acids and other compounds, are, unless indicated otherwise, in accord with their common usage, recognized abbreviations, or the IUPAC-IUB Commission on Biochemical Nomenclature (See, Biochem. 11:942-944 (1972)).

List of abbreviations

DMF	dimethylformamide
DMSO	dimethylsulfoxide
MeOH	methanol
EtOH	ethanol
THF	tetrahydrofurane
DCM	dichloromethane, methylene chloride
DCE	1,2-dichloroethane
LRMS	low resolution mass spectrometry

	HPLC	high pressure liquid chromatography
	Prep-HPLC	preparative high pressure liquid chromatography
	h	hour
	min	minutes
5	EA	ethyl acetate
	EDC·HCl	3-((ethylimino)methyleneamino)- <i>N,N</i> -dimethylpropan-1-aminium chloride
	DIEA	diisopropylethyamine
	TEA	triethylamine
10	TFA	trifluoroacetic acid
	HCl	hydrochloric acid, hydrogen chloride
	HOBt	1-hydroxybenzotriazole hydrate
	HOAt	1-hydroxy-7-azabenzotriazole
	HATU	1-[bis(dimethylamino)methylene]-1 <i>H</i> -1,2,3-triazolo[4,5-
15		<i>b</i>]pyridinium 3-oxid hexafluorophosphate
	DMAP	4-(dimethylamino)pyridine
	DAST	(diethylamino)sulfur trifluoride
	DIAD	Diisopropyl azodicarboxylate
	DMP	Dess-Martin Periodinane, 1,1,1-tris(acetyloxy)-1,1-dihydro-1,2-
20		benziodoxol-3-(1 <i>H</i>)-one
	TBAF	tetrabutylammonium fluoride trihydrate
	TBDMSCl	<i>tert</i> -butyldimethylsilyl chloride
	MsCl	methanesulfonyl chloride
	NAS	nucleophilic aromatic substitution
25	<i>n</i> BuLi	<i>n</i> -Butyllithium
	<i>i</i> Pr	isopropyl
	Boc	<i>tert</i> -Butyloxycarbonyl
	Flash CC	Flash Column Chromatography
	on	overnight
30	rt	room temperature
	aq	aqueous
	ND	Not Determined
	Cbz	Carboxybenzyl
	Hex	hexane

	Hept	heptane
	DEA	diethylamine
	PE	petroleum ether
	DAD	Diode Array Detector
5	TOF	Time of Flight
	IPA	isopropanol
	Pg	Protective group
	”	Enantiomerically enriched

10 It is understood that, in any compound disclosed herein having one or more chiral centers, if an absolute stereochemistry is not expressly indicated, then each center may independently be of R-configuration or S-configuration or a mixture thereof. Thus, the compounds provided herein may be enantiomerically pure or be stereoisomeric mixtures. Further, compounds provided herein may be scalemic mixtures. In addition, it is understood
15 that in any compound having one or more double bond(s) generating geometrical isomers that can be defined as E or Z each double bond may independently be E or Z or a mixture thereof. Likewise, all tautomeric forms are also intended to be included.

As used herein, the term “rac” refers to “racemic”, “racemate”, etc., as is understood by one of ordinary skill in the art. For example, a racemate comprises a mixture of enantiomers
20 of a chiral molecule in equivalent amounts. Typically, a racemate does not exhibit optical activity.

As used herein, the term “rel” refers to the relative, but not absolute, configuration of a stereogenic center with respect to any other stereogenic center within the same compound, as is understood by one of ordinary skill in the art.

25 As used herein, “tautomer” and “tautomeric” refer to alternate forms of a compound disclosed herein that differ in the position of a proton. Non-limiting examples include enol-keto and imine-enamine tautomers, or the tautomeric forms of heteroaryl groups containing a ring atom attached to both a ring -NH- moiety and a ring =N- moiety such as pyrazoles, imidazoles, benzimidazoles, triazoles, and tetrazoles.

30 It is understood that isotopes may be present in the compounds described herein. Each chemical element as represented in a compound structure may include any isotope of said element. For example, in a compound described herein a hydrogen atom can be any isotope of hydrogen, including but not limited to hydrogen-1 (protium) and hydrogen-2 (deuterium).

Thus, reference herein to a compound encompasses all potential isotopic forms unless the context clearly dictates otherwise.

As used herein, reference to an element, whether by description or chemical structure, encompasses all isotopes of that element unless otherwise described. By way of example, the term “hydrogen” or “H” in a chemical structure as used herein is understood to encompass, for example, not only ^1H , but also deuterium (^2H), tritium (^3H), and mixtures thereof unless otherwise denoted by use of a specific isotope. Other specific non-limiting examples of elements for which isotopes are encompassed include carbon, phosphorous, iodine, and fluorine.

As used herein, “pharmaceutically acceptable salt” refers to a salt of a compound that does not abrogate the biological activity and properties of the compound. Pharmaceutical salts can be obtained by reaction of a compound disclosed herein with an acid or base. Base-formed salts include, without limitation, ammonium salt (NH_4^+); alkali metal, such as, without limitation, sodium or potassium, salts; alkaline earth, such as, without limitation, calcium or magnesium, salts; salts of organic bases such as, without limitation, dicyclohexylamine, piperidine, piperazine, methylpiperazine, N-methyl-D-glucamine, diethylamine, ethylenediamine, tris(hydroxymethyl)methylamine; and salts with the amino group of amino acids such as, without limitation, arginine and lysine. Useful acid-based salts include, without limitation, acetates, adipates, aspartates, ascorbates, benzoates, butyrates, caparate, caproate, caprylate, camsylates, citrates, decanoates, formates, fumarates, gluconates, glutarate, glycolates, hexanoates, laurates, lactates, maleates, nitrates, oleates, oxalates, octanoates, propanoates, palmitates, phosphates, sebacates, succinates, stearates, sulfates, sulfonates, such as methanesulfonates, ethanesulfonates, p-toluenesulfonates, salicylates, tartrates, and tosylates.

Pharmaceutically acceptable solvates and hydrates are complexes of a compound with one or more solvent or water molecules, or 1 to about 100, or 1 to about 10, or one to about 2, 3 or 4, solvent or water molecules.

As used herein, a “prodrug” refers to a compound that may not be pharmaceutically active but that is converted into an active drug upon *in vivo* administration. The prodrug may be designed to alter the metabolic stability or the transport characteristics of a drug, to mask side effects or toxicity, to improve the flavor of a drug or to alter other characteristics or properties of a drug. Prodrugs are often useful because they may be easier to administer than the parent drug. They may, for example, be bioavailable by oral administration whereas the parent drug is not. The prodrug may also have better solubility than the active parent drug in

pharmaceutical compositions. An example, without limitation, of a prodrug would be a compound disclosed herein, which is administered as an ester (the “prodrug”) to facilitate absorption through a cell membrane where water solubility is detrimental to mobility but which then is metabolically hydrolyzed to a carboxylic acid (the active entity) once inside the cell where water-solubility is beneficial. A further example of a prodrug might be a short peptide (polyaminoacid) bonded to an acid group where the peptide is metabolized *in vivo* to release the active parent compound. By virtue of knowledge of pharmacodynamic processes and drug metabolism *in vivo*, those skilled in the art, once a pharmaceutically active compound is known, can design prodrugs of the compound (see, *e.g.* Nogrady (1985) *Medicinal Chemistry A Biochemical Approach*, Oxford University Press, New York, pages 388-392).

As used herein, to “modulate” the activity of a receptor means either to activate it, *i.e.*, to increase its cellular function over the base level measured in the particular environment in which it is found, or deactivate it, *i.e.*, decrease its cellular function to less than the measured base level in the environment in which it is found and/or render it unable to perform its cellular function at all, even in the presence of a natural binding partner. A natural binding partner is an endogenous molecule that is an agonist for the receptor.

An “agonist” is defined as a compound that increases the basal activity of a receptor (*i.e.* signal transduction mediated by the receptor).

As used herein, “partial agonist” refers to a compound that has an affinity for a receptor but, unlike an agonist, when bound to the receptor it elicits only a fractional degree of the pharmacological response normally associated with the receptor even if a large number of receptors are occupied by the compound.

An “inverse agonist” is defined as a compound, which reduces, or suppresses the basal activity of a receptor, such that the compound is not technically an antagonist but, rather, is an agonist with negative intrinsic activity.

As used herein, “antagonist” refers to a compound that binds to a receptor to form a complex that does not give rise to any response, as if the receptor was unoccupied. An antagonist attenuates the action of an agonist on a receptor. An antagonist may bind reversibly or irreversibly, effectively eliminating the activity of the receptor permanently or at least until the antagonist is metabolized or dissociates or is otherwise removed by a physical or biological process.

As used herein, a “subject” refers to an animal that is the object of treatment, observation or experiment. “Animal” includes cold- and warm-blooded vertebrates and invertebrates such as birds, fish, shellfish, reptiles and, in particular, mammals. “Mammal”

includes, without limitation, mice; rats; rabbits; guinea pigs; dogs; cats; sheep; goats; cows; horses; primates, such as monkeys, chimpanzees, and apes, and, in particular, humans.

As used herein, a “patient” refers to a subject that is being treated by a medical professional such as an M.D. or a D.V.M. to attempt to cure, or at least ameliorate the effects of, a particular disease or disorder or to prevent the disease or disorder from occurring in the first place.

As used herein, a “carrier” refers to a compound that facilitates the incorporation of a compound into cells or tissues. For example, without limitation, dimethyl sulfoxide (DMSO) is a commonly utilized carrier that facilitates the uptake of many organic compounds into cells or tissues of a subject.

As used herein, a “diluent” refers to an ingredient in a pharmaceutical composition that lacks pharmacological activity but may be pharmaceutically necessary or desirable. For example, a diluent may be used to increase the bulk of a potent drug whose mass is too small for manufacture or administration. It may also be a liquid for the dissolution of a drug to be administered by injection, ingestion or inhalation. A common form of diluent in the art is a buffered aqueous solution such as, without limitation, phosphate buffered saline that mimics the composition of human blood.

As used herein, an “excipient” refers to an inert substance that is added to a pharmaceutical composition to provide, without limitation, bulk, consistency, stability, binding ability, lubrication, disintegrating ability etc., to the composition. A “diluent” is a type of excipient.

A "receptor" is intended to include any molecule present inside or on the surface of a cell that may affect cellular physiology when it is inhibited or stimulated by a ligand. Typically, a receptor comprises an extracellular domain with ligand-binding properties, a transmembrane domain that anchors the receptor in the cell membrane, and a cytoplasmic domain that generates a cellular signal in response to ligand binding ("signal transduction"). A receptor also includes any intracellular molecule that in response to ligation generates a signal. A receptor also includes any molecule having the characteristic structure of a receptor, but with no identifiable ligand. In addition, a receptor includes a truncated, modified, mutated receptor, or any molecule comprising partial or all of the sequences of a receptor.

"Ligand" is intended to include any substance that interacts with a receptor.

"Selective" or "selectivity" is defined as a compound's ability to generate a desired response from a particular receptor type, subtype, class or subclass while generating less or little response from other receptor types. "Selective" or "selectivity" of one or more particular

subtypes of a compound means a compound's ability to increase the activity of the subtypes while causing less, little or no increase in the activity of other subtypes.

As used herein, "coadministration" of pharmacologically active compounds refers to the delivery of two or more separate chemical entities, whether in vitro or in vivo.

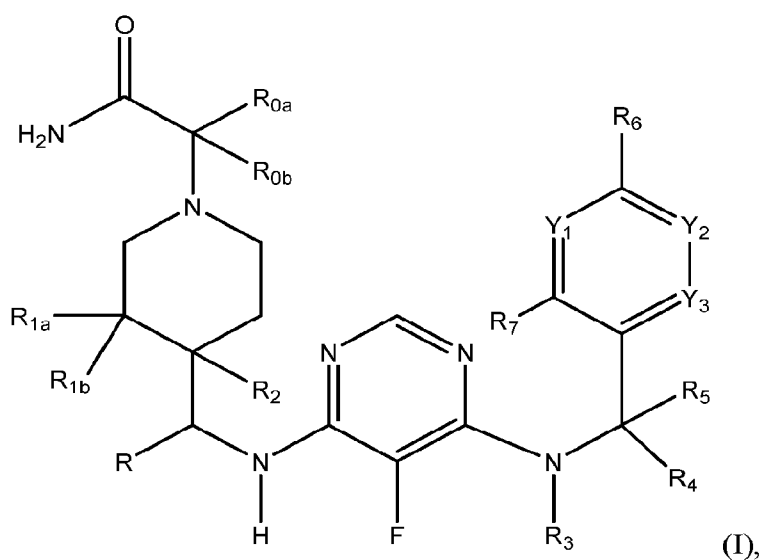
5 Coadministration means the simultaneous delivery of separate agents; the simultaneous delivery of a mixture of agents; as well as the delivery of one agent followed by delivery of a second agent or additional agents. Agents that are coadministered are typically intended to work in conjunction with each other.

10 The term "an effective amount" as used herein means an amount of active compound or pharmaceutical agent that elicits the biological or medicinal response in a tissue, system, animal or human that is being sought by a researcher, veterinarian, medical doctor or other clinician, which includes alleviation or palliation of the symptoms of the disease being treated.

15 When used herein, "prevent/preventing" should not be construed to mean that a condition and/or a disease never might occur again after use of a compound or pharmaceutical composition according to embodiments disclosed herein to achieve prevention. Further, the term should neither be construed to mean that a condition not might occur, at least to some extent, after such use to prevent said condition. Rather, "prevent/preventing" is intended to mean that the condition to be prevented, if occurring despite such use, will be less severe than without such use.

20 *Compounds*

In one embodiment the present disclosure relates to a compound of Formula (I)



a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer, wherein

Y_1 , Y_2 and Y_3 are independently N or CR_8 ;

R is selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{1-4} hydroxyalkyl;

R_{0a} and R_{0b} independently are selected from the group consisting of hydrogen, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, C_{1-4} haloalkyl, CN, substituted or unsubstituted heteroalicycyl and substituted or unsubstituted heteroaryl;

R_{1a} and R_{1b} are independently selected from the group consisting of hydrogen, hydroxyl, halogen, amino, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, and C_{1-4} haloalkyl;

R_2 is selected from the group consisting of hydrogen, hydroxyl, amino, cyano, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, $C(=O)OH$, $C(=O)NH_2$, $C(=O)O-C_{1-4}$ alkyl, and substituted or unsubstituted heteroaryl;

R_3 is selected from the group consisting of C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-6} hydroxyhaloalkyl, C_{1-4} alkylene- C_{1-4} alkoxy, substituted or unsubstituted C_{3-7} cycloalkyl, and substituted or unsubstituted C_{3-7} cycloalkenyl;

R_4 and R_5 are each independently hydrogen or C_{1-4} alkyl, or R_4 and R_5 are taken together with the carbon atom to which they are attached to form a C_{3-4} cycloalkyl;

R_6 is selected from the group consisting of hydrogen, CN, halogen, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, C_{1-6} hydroxyhaloalkyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl;

R_7 is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl;

each R_8 independently is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl; and

whenever R_7 is hydrogen and each R_8 present is hydrogen, then R_6 is selected from the group consisting of CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-6}

hydroxyhaloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl; and

when substituted, a heteroalicycyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, hydroxy, C₁₋₄ alkoxy, and halogen; and

when substituted, a heteroaryl is substituted with 1 to 3 substituents independently selected
5 from the group consisting of C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, cyano, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy and C₁₋₆ hydroxyhaloalkyl; and

when substituted, a cycloalkyl or cycloalkenyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl and halogen.

10

In some embodiments disclosed herein, R is hydrogen.

In some embodiments disclosed herein, R₆ is selected from the group consisting of hydrogen, CN, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy, C₁₋₄ hydroxyalkyl, C₁₋₆
15 hydroxyhaloalkyl; 5 membered heteroaryl, and 5-membered heteroaryl substituted with 1 or 2 substituents independently selected from methyl or hydroxyethyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot be hydrogen. In other embodiments, R₆ is selected from the group consisting of hydrogen, CN, chloro, CF₃, CHF₂, CCH₃F₂, OCF₃, and OCHF₂, OCH₂F, C(CF₃)₂OH, CF₂CH₂OH, pyrazolyl, and pyrazolyl
20 substituted with 1 substituent selected from methyl or 2-hydroxyethyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot be hydrogen. In other embodiments, R₆ is selected from the group consisting of hydrogen, CF₃, CCH₃F₂, OCHF₂, C(CF₃)₂OH, pyrazolyl, and methyl-pyrazolyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot be hydrogen. In other embodiments, R₆ is selected from
25 the group consisting of CF₃, C(CF₃)₂OH, 1-methyl-1*H*-pyrazol-4-yl, and 1*H*-pyrazol-1-yl. In other embodiments, R₆ is CF₃.

In some embodiments disclosed herein, R₇ is selected from the group consisting of hydrogen, halogen, hydroxyl, cyano, CH₃, OCH₃, CF₃, CHF₂, OCF₃ and OCHF₂. In other
30 embodiments, R₇ is hydrogen or fluoro.

In some embodiments disclosed herein, Y₁, Y₂ and Y₃ are each CH. In some embodiments, Y₁ is N and Y₂ and Y₃ are each CH. In some embodiments, Y₂ is N and Y₁

and Y₃ are each CH. In some embodiments, Y₃ is N and Y₁ and Y₂ are each CH. In some embodiments; Y₃ is CH- and Y₁ and Y₂ are each N.

In some embodiments disclosed herein, Y₁ and Y₂ are each CH-, and Y₃ is CR₈ wherein R₈ is selected from the group consisting of hydrogen, hydroxyl, methyl, OCH₃,
5 fluoro, chloro, and CF₃.

In some embodiments disclosed herein, R₈ is hydrogen or fluoro.

In some embodiments disclosed herein Y₂ is N and Y₁ and Y₃ independently are CH. In some embodiments, Y₃ is N and Y₁ and Y₂ independently are each CH.

In some embodiments disclosed herein, R₆ is hydrogen, at least one of Y₂ or Y₃ is
10 CR₈, and R₈ is selected from the group consisting of CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, and C₁₋₄ haloalkoxy. In some embodiments, R₆ is hydrogen, and Y₂ is C(OCF₃).

In some embodiments disclosed herein, R₄ and R₅ independently are hydrogen or methyl. In some embodiments, R₄ and R₅ are taken together with the carbon atom to which they are attached to form a cyclopropyl.

15 In some embodiments disclosed herein, R₄ is hydrogen or methyl, and R₅ is hydrogen.

In some embodiments disclosed herein, R₄ and R₅ are each hydrogen.

In some embodiments disclosed herein, R₃ is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, iso-butyl, tert-butyl, CH₂CH₂F, CH₂CH₂OCH₃,
20 cyclopropyl-CH₂-, cyclopropyl, methylcyclopropyl, cyclobutyl, and fluorocyclobutyl. In some embodiments, R₃ is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, iso-butyl, tert-butyl, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, and 3-fluorocyclobutyl. In some embodiments, R₃ is selected from the group consisting of methyl, ethyl, isopropyl, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, (1*r*,3*S*)-3-fluorocyclobutyl,
25 and (1*S*,3*R*)-3-fluorocyclobutyl. In some embodiments, R₃ is selected from the group consisting of methyl, ethyl, and cyclopropyl. In some embodiments, R₃ is ethyl. In some embodiments, R₃ is cyclopropyl.

In some embodiments disclosed herein, R₂ is selected from the group consisting of hydrogen, hydroxyl, amino, CN, halogen, methyl, ethyl, CH₂OH, CH₂CH₂OH, C(=O)OC₁₋₂
30 alkyl, C(=O)NH₂, and unsubstituted or substituted 5 membered heteroaryl. In some embodiments, R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, fluoro, methyl, CH₂OH, C(=O)OCH₃, C(=O)NH₂, oxadiazolyl, and triazolyl. In some embodiments, R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, methyl, CH₂OH, C(=O)OCH₃, C(=O)NH₂, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-1,2,4-triazol-3-yl,

and 1*H*-1,2,3-triazol-5-yl. In some embodiments, R₂ is selected from the group consisting of hydrogen, CN, methyl, CH₂OH, and hydroxyl. In some embodiments, R₂ is hydrogen or hydroxyl. In some embodiments, R₂ is hydrogen. In some embodiments, R₂ is hydroxyl.

In some embodiments disclosed herein, R_{1a} is selected from the group consisting of hydrogen, hydroxyl, fluoro, and CF₃, and R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl.

In some embodiments disclosed herein, R_{1a} is selected from the group consisting of hydroxyl, fluoro, and CF₃, and R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl.

In some embodiments disclosed herein, R_{1a} is hydroxyl or fluoro. In some embodiments, R_{1a} is hydroxyl.

In some embodiments disclosed herein, R_{1b} is hydrogen. In some embodiments, R_{1b} is methyl.

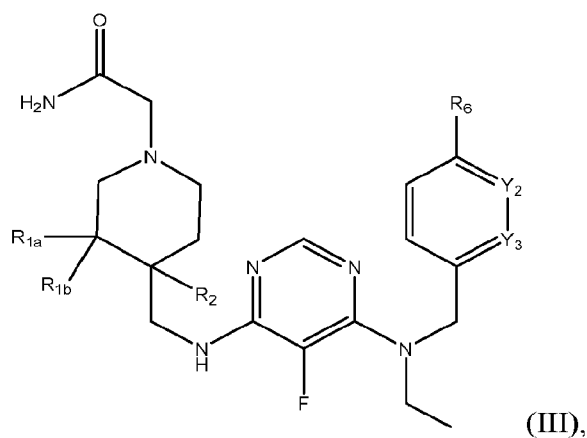
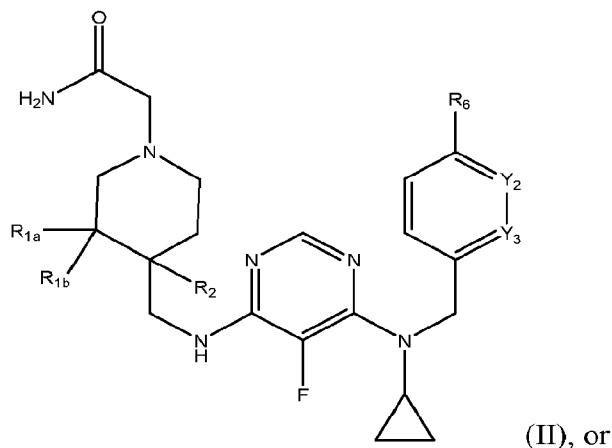
In some embodiments disclosed herein, at least one of R_{1a}, R_{1b}, and R₂ is not hydrogen.

In some embodiments disclosed herein, R_{1a} is selected from the group consisting of hydrogen, hydroxyl, and fluoro; R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl; and R₂ is selected from the group consisting of hydrogen, hydroxyl, methyl, CN, CH₂OH, and CH₂CH₂OH. In some embodiments, R_{1a} is selected from the group consisting of hydroxyl and hydrogen. In some embodiments, R_{1b} is hydrogen and R₂ is selected from the group consisting of hydrogen, hydroxyl, CH₂OH, and CH₂CH₂OH, provided either R_{1a} is hydroxyl or R₂ is selected from the group consisting of hydroxyl, CH₂OH, and CH₂CH₂OH.

In some embodiments disclosed herein, R_{0a} is selected from the group consisting of hydrogen, methyl, CH₂OH, CH₂CH₂OH, CH₂F, and CHF₂; and R_{0b} is selected from the group consisting of hydrogen, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, and C₁₋₄ haloalkyl.

In some embodiments disclosed herein, R_{0a} is selected from the group consisting of hydrogen, methyl, CH₂OH, and CH₂CH₂OH. In some embodiments, R_{0a} is hydrogen. In some embodiments, R_{0b} is hydrogen.

In some embodiments, provided herein is a compound having a structure of Formula (II) or Formula (III):



a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer, wherein

- 5 R_{1a} is fluoro or hydroxyl, R_{1b} is hydrogen or fluoro, R_2 is hydrogen or hydroxyl, R_6 is CF_3 , Y_2 and Y_3 are independently N or CR_8 , and R_8 is hydrogen or fluoro. In some embodiments Y_2 and Y_3 are each CH, or Y_2 is CH and Y_3 is CF. In some embodiments, R_{1a} is hydroxyl and R_{1b} is hydrogen. In some embodiments, R_2 is hydrogen. In some embodiments R_2 is hydroxyl.

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- In some embodiments disclosed herein, R_{0a} is selected from the group consisting of hydrogen, methyl, CH_2OH , and CH_2CH_2OH ; R_{0b} is selected from the group consisting of hydrogen and methyl; R_{1a} is selected from the group consisting of hydrogen, hydroxyl, fluoro, and CF_3 ; R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl; R_2 is selected from the group consisting of hydrogen, hydroxyl, amino, CN, fluoro, methyl, CH_2OH , $C(=O)-NH_2$, $C(=O)O-CH_3$, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-imidazol-2-yl, 1*H*-1,2,3-triazol-5-yl, 1*H*-1,2,4-triazol-3-yl, and 4-methyl-4*H*-1,2,4-triazol-3-yl; R_3 is selected from the group
- 15

consisting of methyl, ethyl, isopropyl, isobutyl, CH₂CH₂F, CH₂CH₂OCH₃, cyclopropyl-CH₂-, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, and 3-fluorocyclobutyl; R₄ is hydrogen or methyl; R₅ is hydrogen; R₆ is selected from the group consisting of hydrogen, chloro, CN, CF₃, CHF₂, CCH₃F₂, OCH₃, OCF₃, OCH₂F, OCHF₂, C(CF₃)₂OH, CF₂CH₂OH, 1*H*-pyrazol-1-yl, 1-methyl-1*H*-pyrazol-4-yl, and 1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl; R₇ is hydrogen or chloro; Y₁, Y₂ and Y₃ are each CH; or Y₁ is CH, Y₂ is CH, and Y₃ is selected from the group consisting of N, C(F), C(OCH₃), C(CH₃), C(Cl), and C(CF₃); or Y₁ is CH, Y₂ is selected from the group consisting of N, C(CN), C(1*H*-1,2,4-triazol-1-yl), C(OCF₃), C(OCH₃), C(F), C(OCHF₂), and C(Cl), and Y₃ is CH; or Y₁ is CH, Y₂ is C(Cl) and Y₃ is C(Cl); or Y₁ is C(CH₃), Y₂ is CH and Y₃ is C(CH₃); or Y₁ is C(CH₃), Y₂ is C(CH₃) and Y₃ is CH; or Y₁ is C(CF₃), Y₂ is C(CF₃) and Y₃ is CH; or Y₁ is C(Cl), Y₂ is C(Cl) and Y₃ is CH; or Y₁ is N, Y₂ is N and Y₃ is CH. In some cases; when R₇ is H and Y₁, Y₂ and Y₃ are CH, R₆ is selected from the group consisting of chloro, CN, CF₃, C(CH₃)F₂, OCF₃, OCH₂F, OCHF₂, C(CF₃)₂OH, CF₂CH₂OH, 1*H*-pyrazol-1-yl, 1-methyl-1*H*-pyrazol-4-yl, and 1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl.

In some embodiments disclosed herein, R_{0a} is selected from the group consisting of hydrogen, methyl, CH₂OH, and CH₂CH₂OH; R_{0b} is hydrogen or methyl; R_{1a} is selected from the group consisting of hydrogen, hydroxyl, CF₃, and fluoro; R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl; R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, CH₂OH, methyl, CO₂Me, CONH₂, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-1,2,3-triazol-5-yl, and 1*H*-1,2,4-triazol-3-yl; R is hydrogen; R₃ is selected from the group consisting of methyl, ethyl, isopropyl, cyclopropyl-CH₂-, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, (1*r*,3*S*)-3-fluorocyclobutyl, and (1*s*,3*R*)-3-fluorocyclobutyl; R₄ is hydrogen; R₅ is hydrogen; R₆ is selected from the group consisting of hydrogen, CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl; R₇ is hydrogen; Y₁, Y₂ and Y₃ are each CH; or Y₁ is CH, Y₂ is CH and Y₃ is C(F); or Y₁ is CH, Y₂ is C(OCF₃) or C(OCH₃), and Y₃ is CH; or Y₁ is CH, Y₂ is CH, and Y₃ is N; or Y₁ is CH, Y₂ is N, and Y₃ is CH; or Y₁ is N, Y₂ is N, and Y₃ is CH. In some cases, when R₇ is H and Y₁, Y₂ and Y₃ are each CH, R₆ is selected from the group consisting of CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl.

In some embodiments, R_{0a} is selected from the group consisting of hydrogen, methyl, and CH₂OH; R_{0b} is hydrogen or methyl; R_{1a} is selected from the group consisting of hydrogen, hydroxyl, and fluoro; R_{1b} is selected from the group consisting of hydrogen,

fluoro, and methyl; R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, CH₂OH, methyl, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, and 1*H*-1,2,3-triazol-5-yl; R is hydrogen; R₃ is ethyl or cyclopropyl; R₄ is hydrogen; R₅ is hydrogen; R₆ is selected from the group consisting of hydrogen, CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl; R₇ is hydrogen; Y₁, Y₂ and Y₃ are each CH; or Y₁ is CH, Y₂ is CH, and Y₃ is C(F); or Y₁ is CH, Y₂ is C(OCF₃), and Y₃ is CH. In some cases; when R₇ is H and Y₁, Y₂ and Y₃ are each CH, R₆ is selected from the group consisting of CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl.

In some embodiments disclosed herein, R_{0a} is selected from the group consisting of CN, substituted or unsubstituted heteroalicyclic, and substituted or unsubstituted heteroaryl; and R_{0b} is hydrogen or C₁₋₄ alkyl. In some embodiments, R_{0a} is unsubstituted or substituted heteroaryl. In some embodiments, R_{0a} is substituted or unsubstituted pyridinyl.

In some embodiments disclosed herein, R_{0b} is hydrogen.

In one embodiment disclosed herein, the compound, stereoisomer, or salt of Formula (I) is selected from the group consisting of:

A7-1

rac-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-1-1

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-1-2

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-2

2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-3-1

rel-(*R*)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-3-2

rel-(R)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 2nd eluting isomer,
A7-4-1

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 1st eluting isomer,
A7-4-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide
2nd eluting isomer,

10

A7-5-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-5-2

15 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-6-1

rel-(R)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 1st eluting isomer,

20 **A7-6-2**

rel-(R)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-7-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

25

A7-7-2

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 2nd eluting isomer,

A7-7-3

30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 3rd eluting isomer,

A7-7-4

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 4th eluting isomer,

A7-8

methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

A7-9

- 5 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-10

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

- 10 **A7-11**

2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-14

- 15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-14-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-14-2

- 20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-15

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 25 **A7-15-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-15-2

- 30 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-16

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-16-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-16-2

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-17

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-17-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-17-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **A7-18**

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-18-1

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-18-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-19

25 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-19-1

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

30 **A7-19-2**

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-20

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-20-1

5 *rel*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-20-2

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-21

10 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-21-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

15 **A7-21-2**

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-22

20 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-22-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-22-2

25 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
1st eluting isomer,

A7-23

30 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-23-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-23-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,
A7-24

5 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-24-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-24-2

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,
A7-25

15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-25-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-26

20 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-26-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,
A7-26-2

25 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-27

30 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-27-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-27-2

rel-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer.

A7-28

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-28-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-28-2

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-29

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

15 **A7-29-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-29-2

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-30

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-31

25 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-32

30 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-33

2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-34

2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-35

- 5 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-36

2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

- 10 **A7-38**

2-(4-(((6-((3-(1*H*-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-39

- 15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-40

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-41

- 20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-42

- 25 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-44

- 30 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,

A7-45

2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-46

2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-47

- 5 2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-49

rac-2-(((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 10 **A7-50**

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-51

- 15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-52

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-53

- 20 2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-54

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 25 **A7-54-1**

rel-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-54-2

- 30 *rel*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-55''

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

A7-56

5 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-57

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

10

A7-58

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-60

15 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-61

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20

A7-64

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide,

A7-65

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

25

A7-66-1

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide or

rel-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

30

1st eluting major isomer,

A7-66-2

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide or

rel-(R)-2-((3S,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
2nd eluting major isomer,

A7-67

5 *rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,* enantiomerically enriched,

A7-68

10 *2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,*

A7-69

*rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,* enantiomerically enriched,

A7-70

15 *2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,*

A7-72

*rac-2-((3R,4R)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

20 **A7-73**

*rac-2-((3R,4R)-4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

A7-74

25 *rac-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

A7-75

*rac-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

A7-76

30 *rac-2-((3R,4R)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

A7-77

*rac-2-((3R,4R)-4-(((6-((4-(1*H*-Pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

A7-78

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-79

- 5 *rac*-2-((3*R*,4*R*)-4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-80

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

- 10 **A7-81**

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,

A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

- 15

A7-83

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

A7-84

- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide,

A7-85

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

- 25 **A7-86**

rac-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-87

2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide,

- 30

B4-1-1-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-1-1-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

B4-1-2-1

5 *rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 1st eluting isomer,*

B4-1-2-2

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

B4-2-1-1

10 *2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 1st eluting isomer*

B4-2-1-2

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **C4-1-1**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

C4-1-2

20 *2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 2nd eluting isomer,*

C4-2-1

2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

D5-1-1-1

25 *rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,*

D5-1-1-2

rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

30 **D5-1-2-1**

rel-2-((3R,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-1-2-2

rel-2-((3R,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-2-1-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-2-1-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-2-2-1

10 *rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,*

D5-2-2-2

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **D5-3-1-1**

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-3-1-2

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

20 **D5-3-2-1**

rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-3-2-2

25 *rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide
2nd eluting isomer,*

D5-4”

30 *rel-2-((3R,4R)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
enantiomerichally enriched,*

D5-5-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, major isomer,

D5-5-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, minor isomer, D5-6"

- 5 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, enantiomerically enriched, D5-9"*

- 10 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, enantiomerically enriched, D5-10"*

D5-10"

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, enantiomerically enriched,

- 15 **E6-1**

2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

F2-1

- 20 *rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

F2-2

rac-2-((3R,4R)-4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-3

- 25 *rac-2-((3R,4R)-4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

F2-4

rac-2-((3R,4R)-4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 30 **F2-5**

*rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(1-(*o*-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

F2-6

rac-2-((3*R*,4*R*)-4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-7

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5

F2-8

rac-2-((3*R*,4*R*)-4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-9

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10

F2-10

rac-2-((3*R*,4*R*)-4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15

F2-11

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-12

rac-2-((3*R*,4*R*)-4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20

F2-13

rac-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-14

rac-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25

F2-15

rac-2-((3*R*,4*R*)-4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30

F2-16

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-17

rac-2-((3*R*,4*R*)-4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-18

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5

F2-19

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-20

10 *rac*-2-((3*R*,4*R*)-4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-21

rac-2-((3*R*,4*R*)-4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15

F2-22

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-23

rac-2-((3*R*,4*R*)-4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

20

In some cases, the compound, stereoisomer, or salt has a structure of Formula (I) is selected from the group consisting of:

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25

2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

30

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

35

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,

- methyl1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,
- 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 10 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 10 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((3-(1*H*-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

- 2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((methyl- d_3)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide,
- 20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,
- 25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2- d_2 ,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 10 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 15 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(1-((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 30 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 5 2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 2-(4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((5-fluoro-6-(methyl(1-(*o*-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((5-fluoro-6-(((6-methoxy-pyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5 2-(4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, and

2-(4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

15 **A7-1**

rac-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-1-1

20 *rel*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-2

2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-3-1

25 *rel*-(*R*)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

A7-4-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

30 **A7-5-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

A7-6-1

35 *rel*-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

A7-7-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,

A7-8

methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

A7-9

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-10

10 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-11

2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

15 **A7-14**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-14-1

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-15

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-15-1

25 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-16

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 **A7-16-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-17

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-17-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-18

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-18-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-19

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 **A7-19-1**

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-20

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 **A7-20-1**

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-21

25 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-21-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 **A7-22**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-22-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-23

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-23-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-24

10 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-24-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 **A7-25**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-25-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 **A7-26**

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-26-1

25 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-27

rac-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 **A7-27-1**

rel-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-28

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-28-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-29

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-29-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-30

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 **A7-31**

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-32

20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-33

25 2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-34

2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-35

30 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-36

2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-38

2-(4-(((6-((3-(1*H*-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-39

5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-40

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 **A7-41**

rac-2-(((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-42

15 *rac*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 **A7-44**

1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,

A7-45

25 2-(4-(((6-(cyclopropyl(((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-46

2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-47

30 2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-49

rac-2-(((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-50

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-51

5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-52

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

10 **A7-53**

2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-54

15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-54-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-55"

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

A7-56

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 **A7-57"**

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

A7-58

30 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-60

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-61

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-64

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide,

5

A7-65

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

A7-66-1

10 *rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide, or

rel-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

A7-67"

15 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,

A7-68

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

20 **A7-69"**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,

A7-70

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,

25

A7-72

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-73

30 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-74

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-75

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-76

- 5 *rac*-2-(((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-77

rac-2-(((3*R*,4*R*)-4-(((6-((4-(1*H*-Pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 10 **A7-78**

rac-2-(((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-79

rac-2-(((3*R*,4*R*)-4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 15

A7-80

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

A7-81

- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,

A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

- 25

A7-83

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

A7-84

- 30 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide,

A7-85

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

A7-86

rac-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-87

2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide,

B4-1-1-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-1-2-1

10 *rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-2-1-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,

15 **C4-1-1**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,

C4-2-1

20 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,

D5-1-1-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-1-2-1

25 *rel*-2-((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-2-1-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

30 **D5-2-2-1**

rel-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-3-1-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-3-2-1

rel-2-((3*R*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-4"

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-5-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-6"

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

15

D5-9"

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-10"

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

E6-1

2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

25 **F2-1**

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-2

rac-2-((3*R*,4*R*)-4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30

F2-3

rac-2-((3*R*,4*R*)-4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-4

rac-2-((3*R*,4*R*)-4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-5

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(1-(*o*-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5

F2-6

rac-2-((3*R*,4*R*)-4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-7

10 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-8

rac-2-((3*R*,4*R*)-4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15

F2-9

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-10

rac-2-((3*R*,4*R*)-4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20

F2-11

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-12

25 *rac*-2-((3*R*,4*R*)-4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-13

rac-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30

F2-14

rac-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-15

rac-2-((3*R*,4*R*)-4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-16

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-methoxyethyl)(4-

5 (trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-17

rac-2-((3*R*,4*R*)-4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 **F2-18**

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-19

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 **F2-20**

rac-2-((3*R*,4*R*)-4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-21

20 *rac*-2-((3*R*,4*R*)-4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

F2-22

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 **F2-23**

rac-2-((3*R*,4*R*)-4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

In other preferred embodiment disclosed herein, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-1-1

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-1-2

rel-2-((3R,4R)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-3-1

rel-(R)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-

5 *fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 1st eluting isomer,*

A7-3-2

rel-(R)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-

fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-4-1

10 *rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-*

fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-4-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-

fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **A7-5-1**

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-5-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-

20 *yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 2nd eluting isomer,*

A7-6-1

rel-(R)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-6-2

25 *rel-(R)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 2nd eluting isomer,*

A7-7-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-

yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

30 **A7-7-2**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-

yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 2nd eluting isomer,

A7-7-3

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 3rd eluting isomer,

A7-7-4

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide, 4th eluting isomer,

A7-8

methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

A7-9

10 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-10

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

15 **A7-14-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-14-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-

20 fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer

A7-15-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-15-2

25 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer,

A7-16-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

30 **A7-16-2**

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-17-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-17-2

5 *rel-2-((3R,4R)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,*
A7-19-1

rel-2-((3R,4R)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,
A7-19-2

10 *rel-2-((3R,4R)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,*
A7-20-1

rel-2-((3R,4R)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

15 **A7-20-2**

rel-2-((3R,4R)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-21-1

rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

20 **A7-21-2**

rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-22-1

25 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,*

A7-22-2

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

30 **A7-26-1**

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-26-2

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-28-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-28-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-29-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-29-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **A7-31**

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-32

20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-39

25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-40

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-41

30 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-42

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-44

1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,

A7-45

10 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-50

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

15 **A7-51**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-52

20 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-54-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

25 **A7-54-2**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-55"

30 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

A7-56

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-57

5 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

A7-58

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 **A7-60**

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-65

15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

A7-66-1

20 *rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide or *rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

1st eluting major isomer,

A7-66-2

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide

25 OR

rel-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

2nd eluting major isomer,

A7-67

30 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide, enantiomerically enriched,

A7-68

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

A7-69

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂, enantiomerically enriched,

A7-70

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,

A7-72

10 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-74

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 **A7-75**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-76

rac-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

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A7-80

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

A7-81

25 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,

A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

30

A7-85

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

A7-86

rac-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

B4-1-1-1

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-1-1-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

B4-1-2-1

10 *rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-1-2-2

rel-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **B4-2-1-1**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-2-1-2

20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

C4-1-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

C4-1-2

25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 2nd eluting isomer,

D5-1-1-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

30 **D5-1-1-2**

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-1-2-1

rel-2-((3R,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-1-2-2

rel-2-((3R,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-2-1-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-2-1-2

10 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,*

D5-2-2-1

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

15 **D5-2-2-2**

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-3-1-1

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

20

D5-3-1-2

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-3-2-1

25 *rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,*

D5-3-2-2

rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

30 **D5-4"**

*rel-2-((3R,4R)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
enantiomerically enriched,*

D5-5-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, major isomer,
D5-5-2

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, minor isomer,
D5-6"

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, enantiomerically enriched,

10 **D5-9"**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
enantiomerically enriched,

F2-7

15 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

20 **A7-1-1**

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-3-1

25 *rel*-(*R*)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

A7-4-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

A7-5-1

30 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

A7-6-1

rel-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

A7-7-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,

A7-8

- 5 methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

A7-9

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

- 10 **A7-10**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-14-1

- 15 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-15-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-16-1

- 20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-17-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 25 **A7-19-1**

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-20-1

- 30 *rel*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-21-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-22-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-26-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-28-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-29-1

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-31

15 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-32

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 **A7-39**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-40

25 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-41

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 **A7-42**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-44

1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-

5 fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,

A7-45

2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-50

10 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-51

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

15 **A7-52**

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-54-1

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-55"

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

A7-56

25 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-57"

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

30 **A7-58**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-60

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-65

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

5

A7-66-1

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide, or

rel-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

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A7-67"

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,

A7-68

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

15

A7-69"

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,

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A7-70

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,

A7-72

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

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A7-74

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-75

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30

A7-76

rac-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-80

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,

A7-81

- 5 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,

A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

- 10 **A7-85**

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

A7-86

- 15 *rac*-2-(((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

B4-1-1-1

rel-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-1-2-1

- 20 *rel*-2-(((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-2-1-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,

- 25 **C4-1-1**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,

D5-1-1-1

- 30 *rel*-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-1-2-1

rel-2-(((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-2-1-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-2-2-1

rel-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-3-1-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-3-2-1

10 *rel*-2-((3*R*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-4”

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

15 **D5-5-1**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-6”

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-9”

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

25 **F2-7**

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

30 In some cases, the compound, salt, or salt of a stereoisomer is selected from the group consisting of

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

- 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,
- 10 methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,
- 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 40

- 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 35 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 40

- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
2-(4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
5 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
10 2-(4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
15 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
20 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
30 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
35 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
40 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and

2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

5 **A7-1-1**

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-1-2

10 *rel*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-5-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 1st eluting isomer,

A7-5-2

15 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-6-1

rel-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 1st eluting isomer,

20 **A7-6-2**

rel-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-10

25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-21-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-21-2

30 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-22-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-22-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

A7-26-1

- 5 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

A7-26-2

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

- 10 **A7-40**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

- 15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-50

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-51

- 20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-54-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 25 1st eluting isomer,

A7-54-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

- 30 **A7-55"**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

A7-56

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-57

rel-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide, enantiomerically enriched,

A7-65

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

10 **A7-69**

rel-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂, enantiomerically enriched,

A7-70

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,

15 **A7-74**

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-75

20 *rac*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-76

rac-2-(((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 **A7-81**

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,

A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

30 **A7-85**

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

A7-86

rac-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

B4-1-1-1

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-1-1-2

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

B4-2-1-1

10 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 1st eluting isomer,

B4-2-1-2

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide, 2nd eluting isomer,

15 **C4-1-1**

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 1st eluting isomer,

C4-1-2

20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide, 2nd eluting isomer,

D5-1-1-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-1-1-2

25 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-2-1-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

30 **D5-2-1-2**

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-2-2-1

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-2-2-2

rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, 2nd eluting isomer,

D5-3-1-1

rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, 1st eluting isomer,

D5-3-1-2

10 *rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide*, 2nd eluting isomer,

D5-4”

rel-2-((3R,4R)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

15 enantiomerically enriched

D5-5-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, major isomer,

D5-5-2

20 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide*, minor isomer,

D5-6”

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-

25 *yl)acetamide*, enantiomerically enriched,

D5-9”

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

enantiomerically enriched.

30

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-1-1

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-5-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

A7-6-1

rel-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

A7-10

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

A7-21-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-22-1

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-26-1

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-40

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-43

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-50

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

A7-51

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

A7-54-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-55”

5 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,*
A7-56

rac-2-((3R,4R)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
A7-57”

10 *rel-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,*
A7-65

rac-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
15 **A7-69”**

*rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,*
A7-70

20 *2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,*
A7-74

*rac-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
A7-75

25 *rac-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
A7-76

*rac-2-((3R,4R)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
30 **A7-81**

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
A7-82

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-

(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,

A7-85

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,

5 **A7-86**

rac-2-(((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

B4-1-1-1

10 *rel*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-1-2-1

rel-2-(((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,

B4-2-1-1

15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,

C4-1-1

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,

20 **D5-1-1-1**

rel-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-1-2-1

25 *rel*-2-(((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide

D5-2-1-1

rel-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-2-2-1

30 *rel*-2-(((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-3-1-1

rel-2-(((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

35 **D5-3-2-1**

rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-4”

5 *rel-2-((3R,4R)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*

D5-5-1

rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

10 **D5-6”**

rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

D5-9”

15 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and .*

F2-7

rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

20

In some cases, the compound, stereoisomer, or salt of the disclosure is selected from the group consisting of

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

35 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 10 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 35 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

10 2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

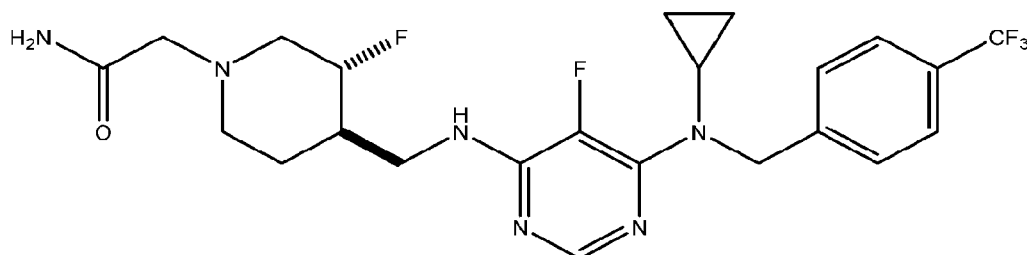
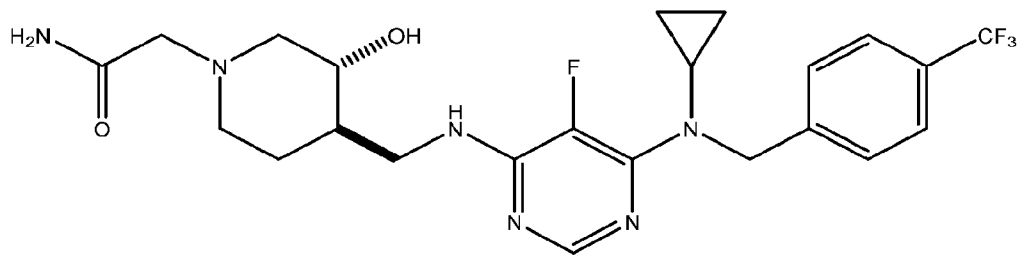
2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

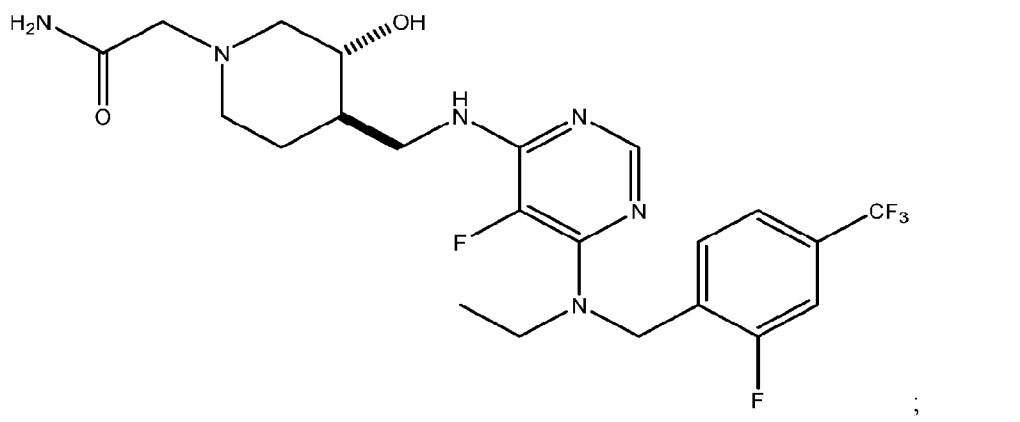
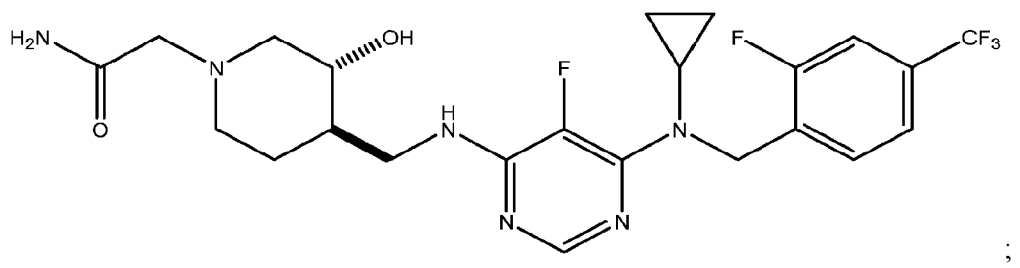
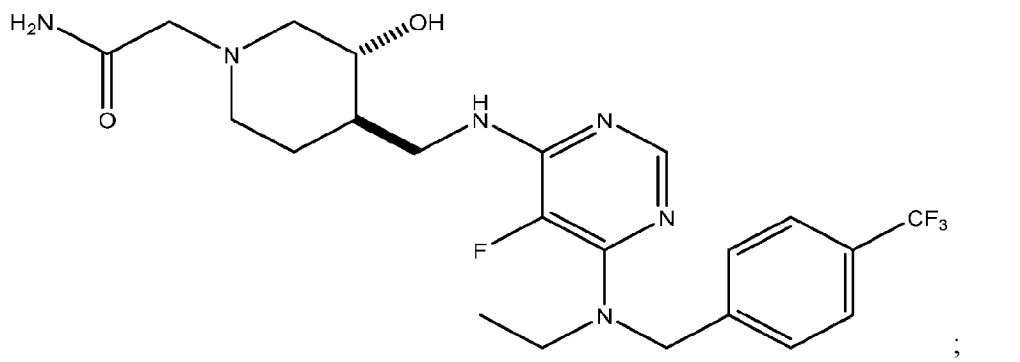
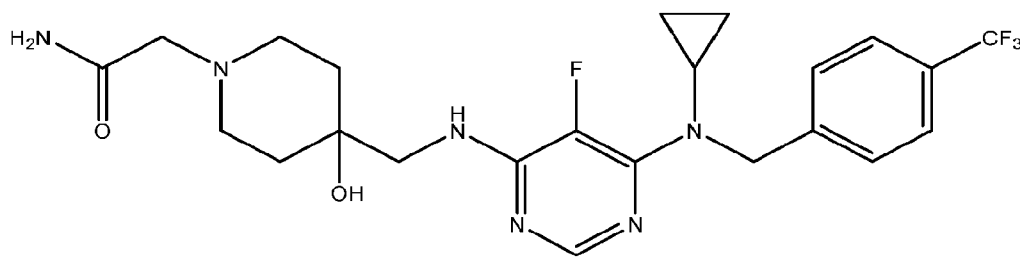
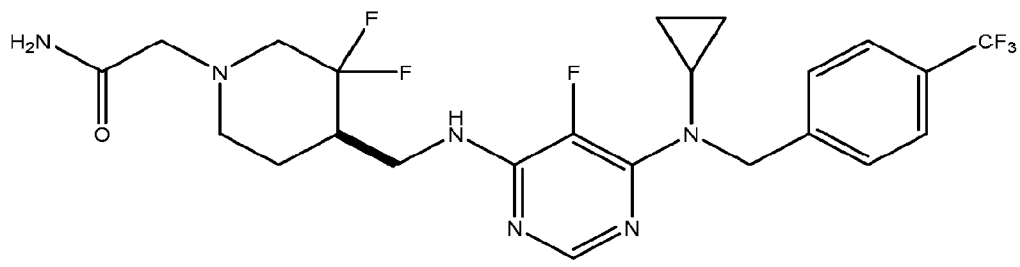
2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

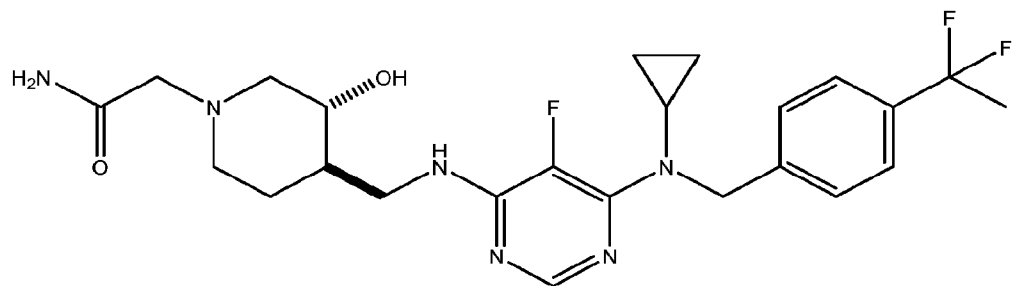
15 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and

2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

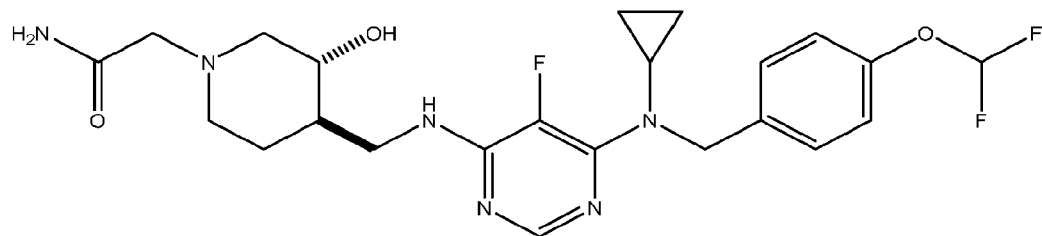
20 In an embodiment, the compound has a structure selected from the group consisting of:



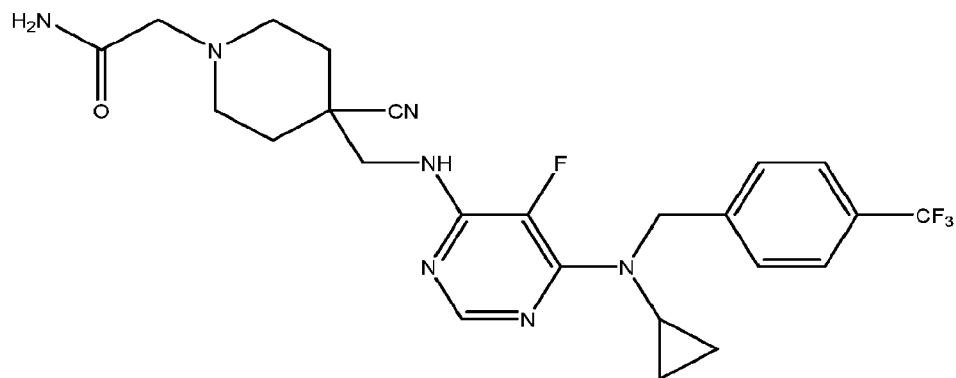




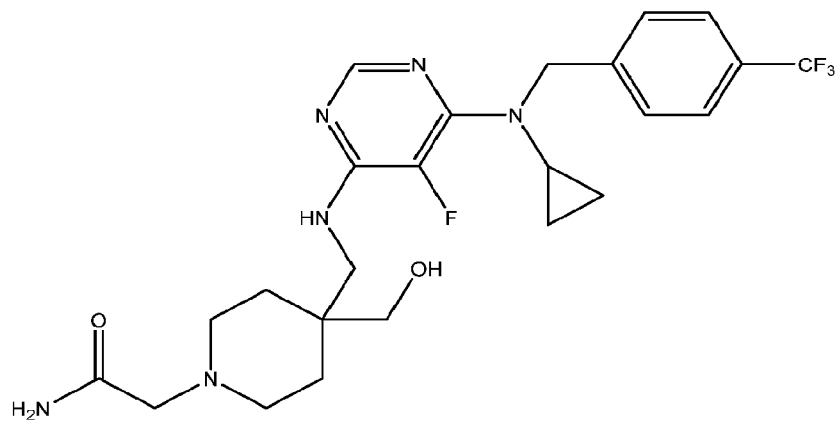
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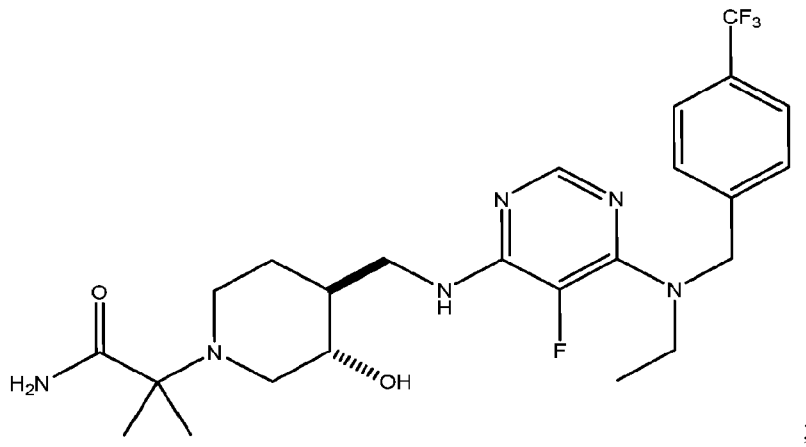
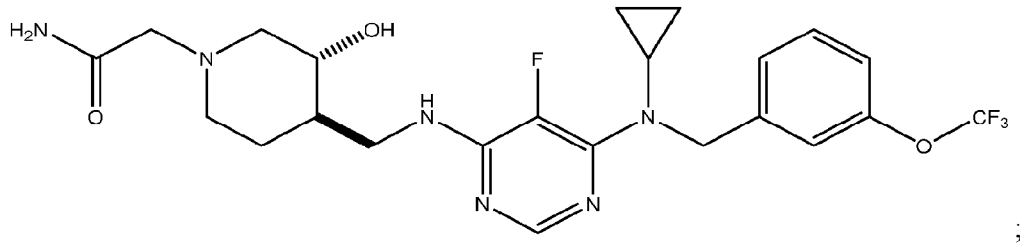
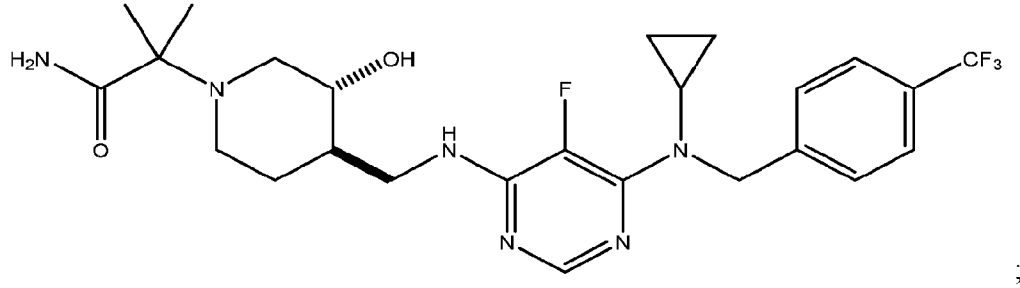
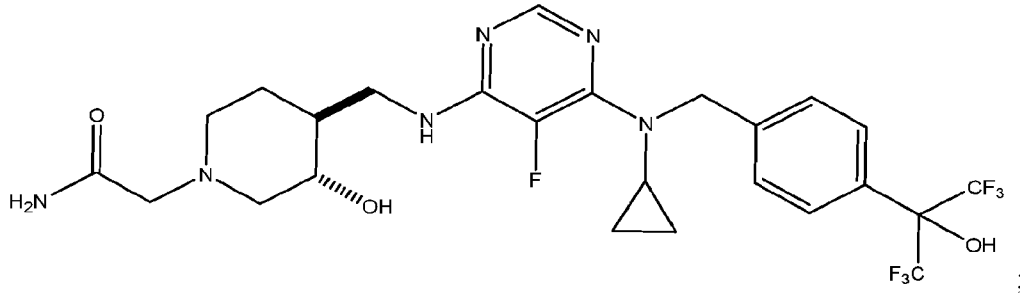
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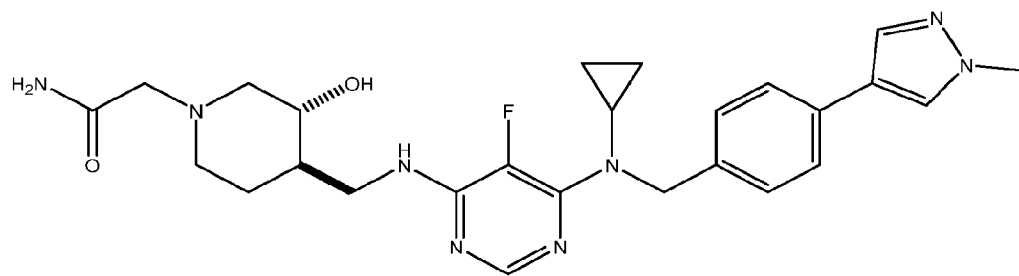
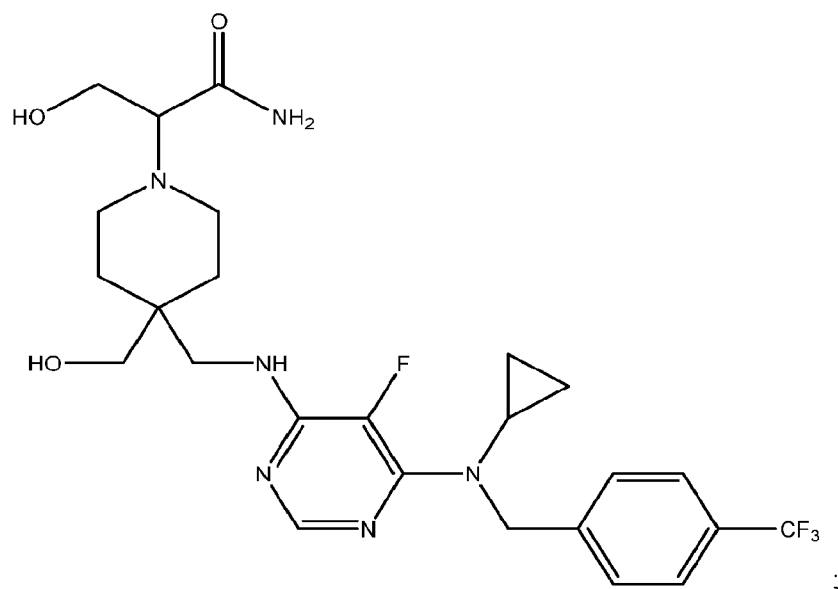
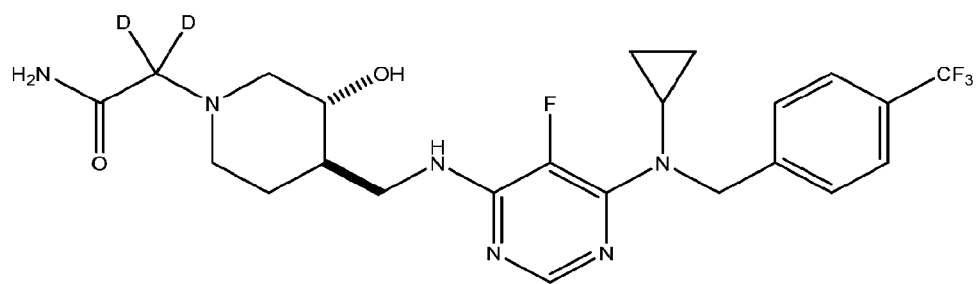
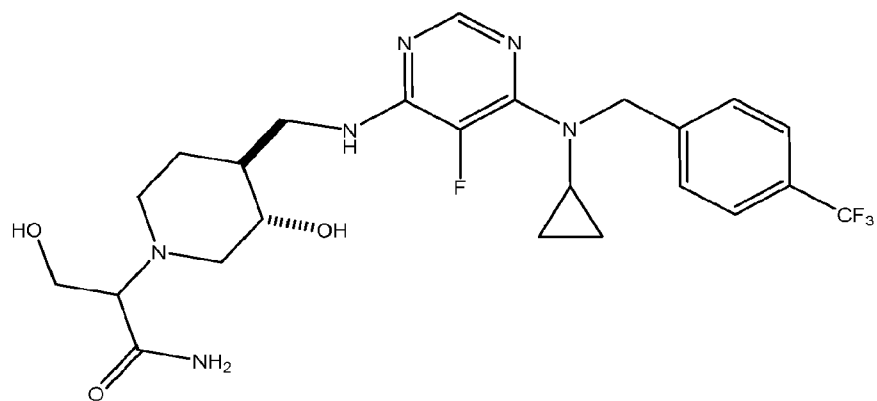


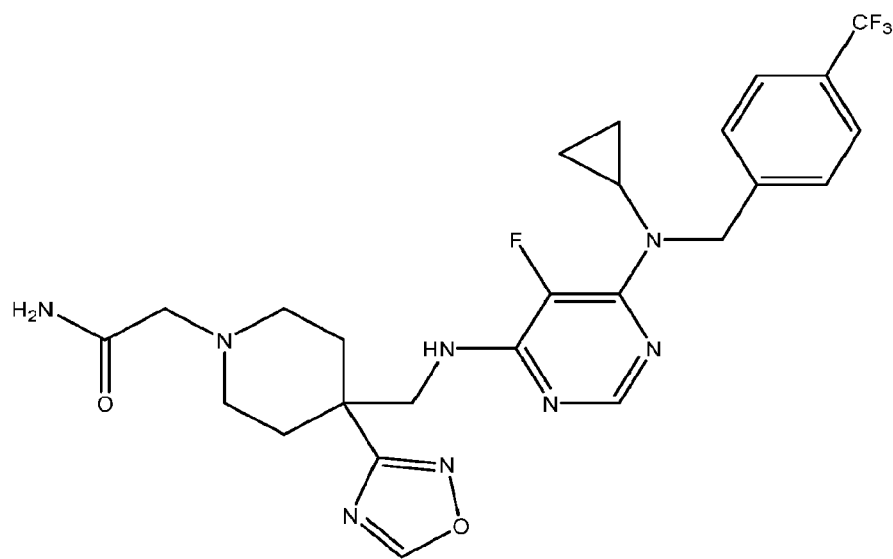
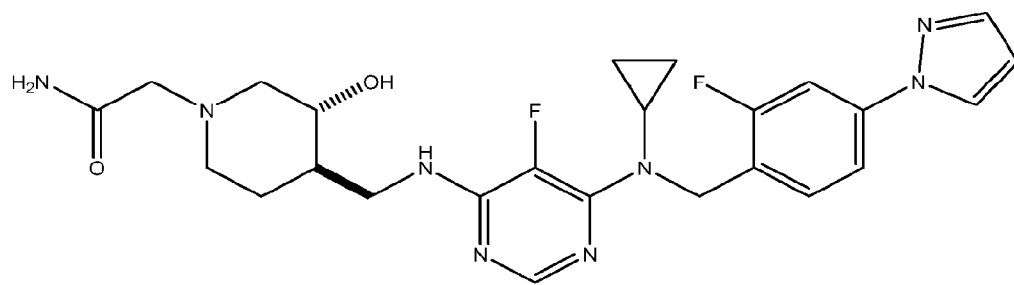
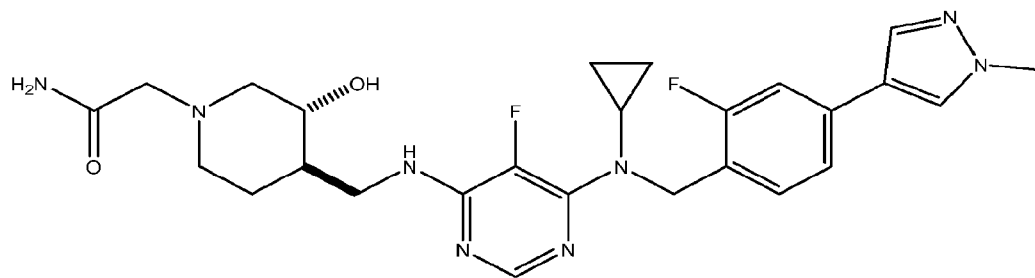
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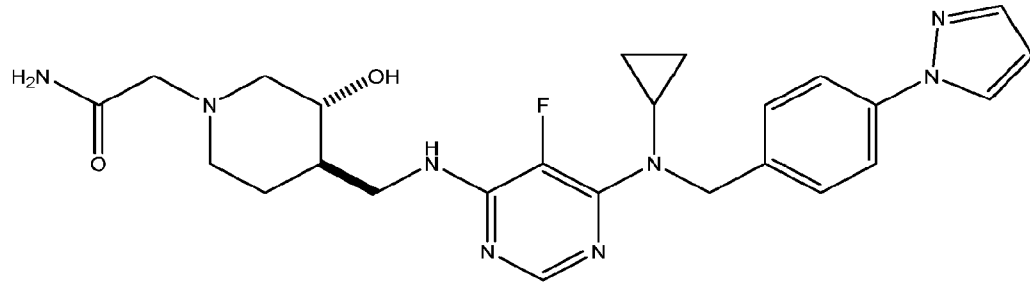
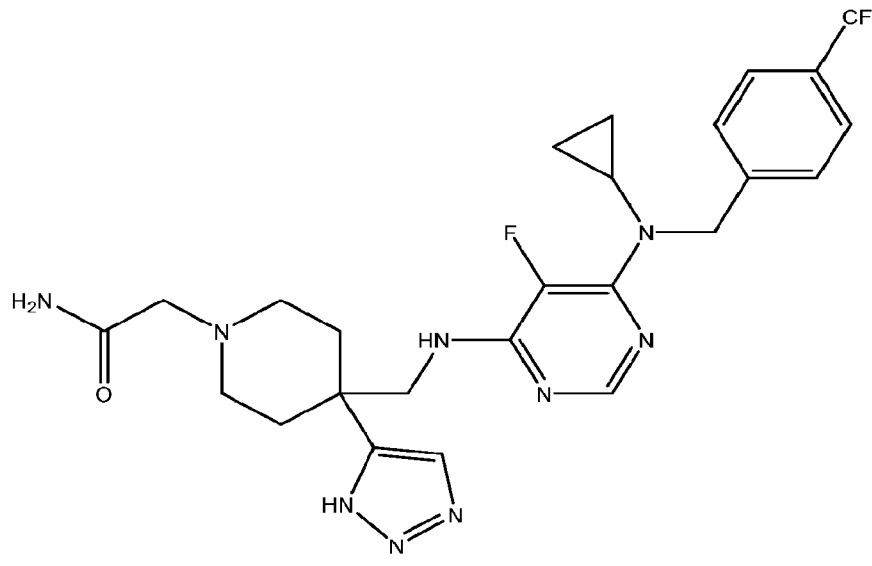
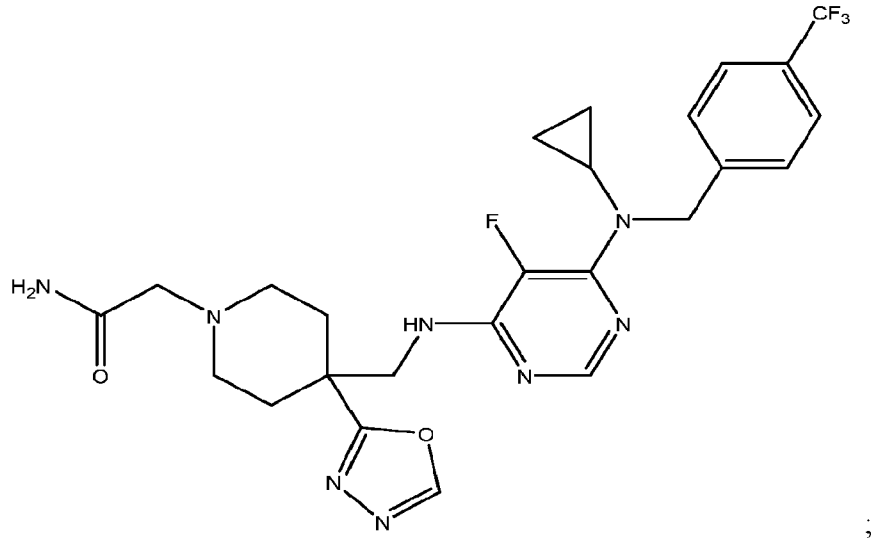


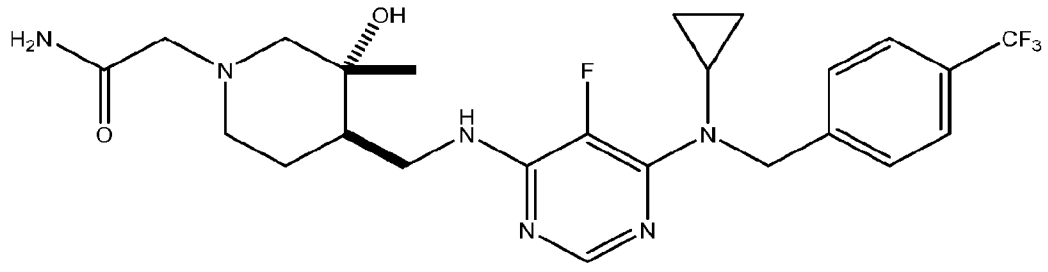
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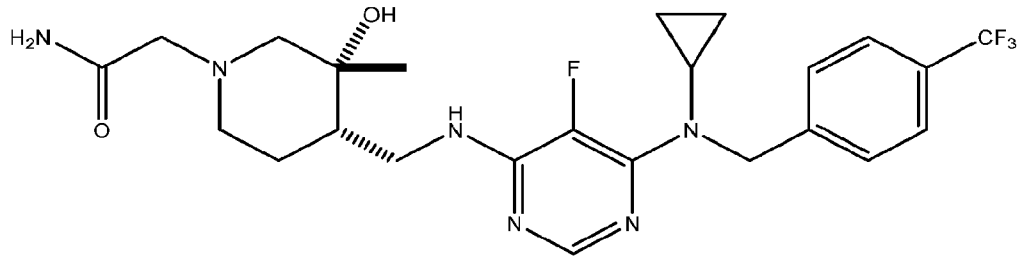




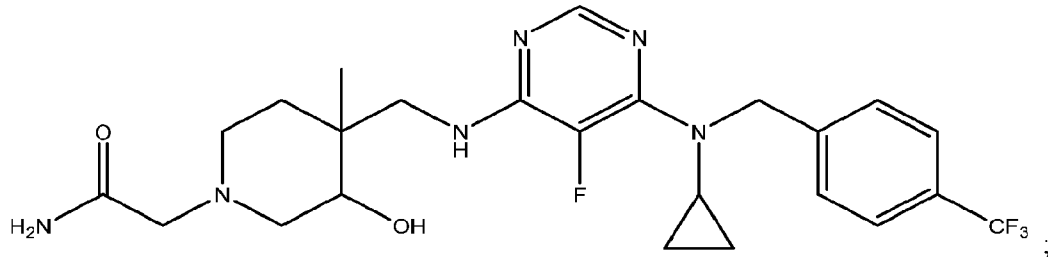




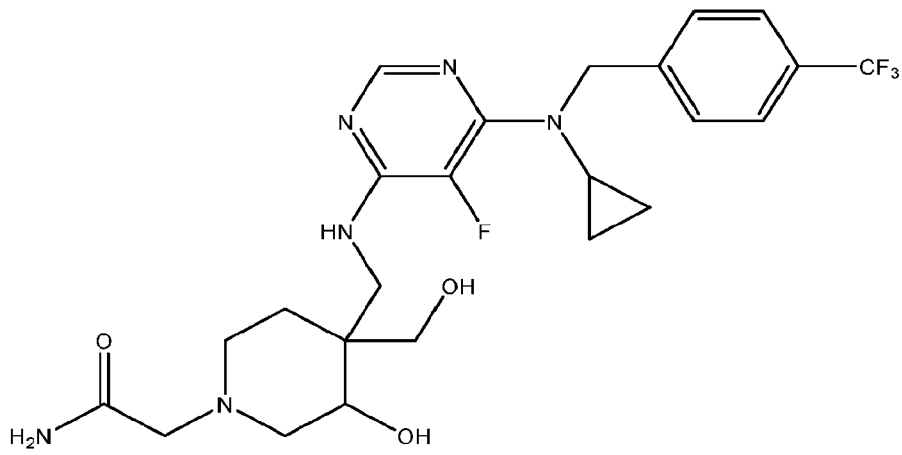
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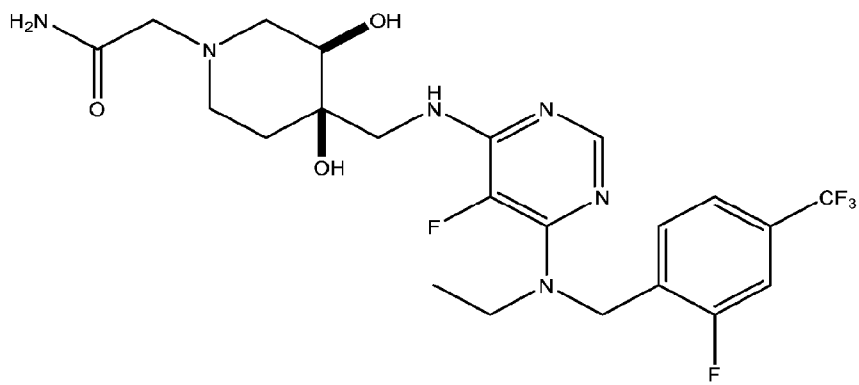
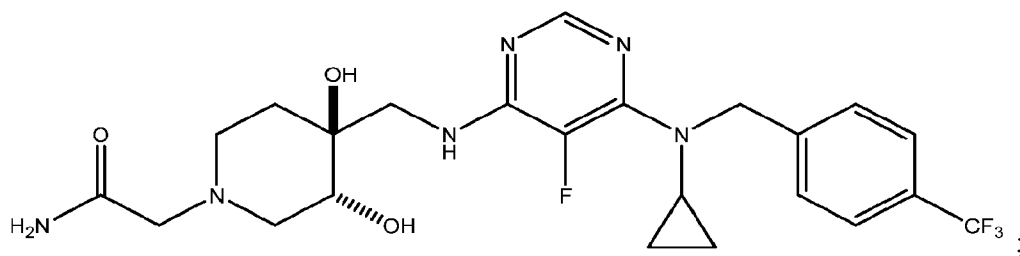
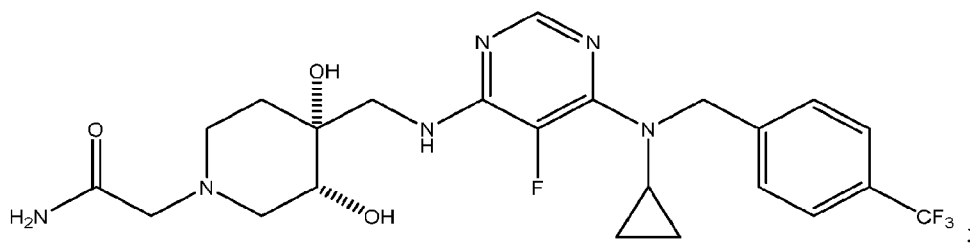
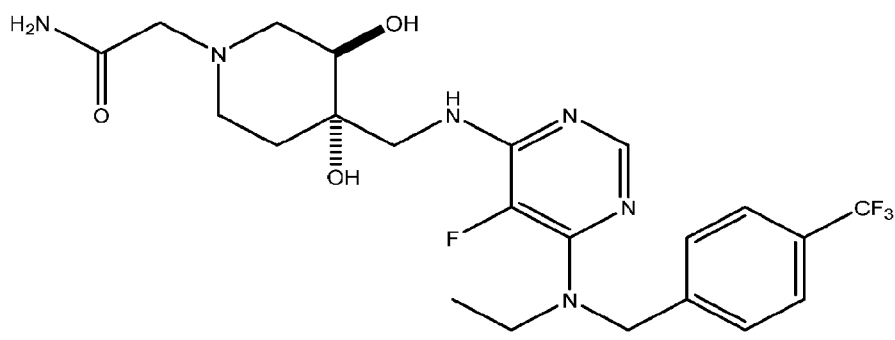
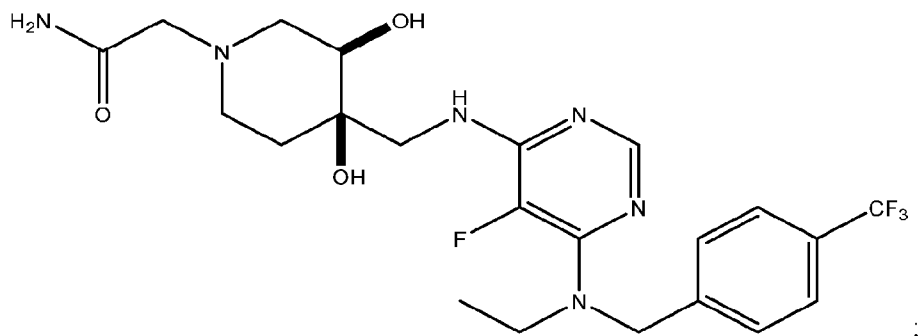
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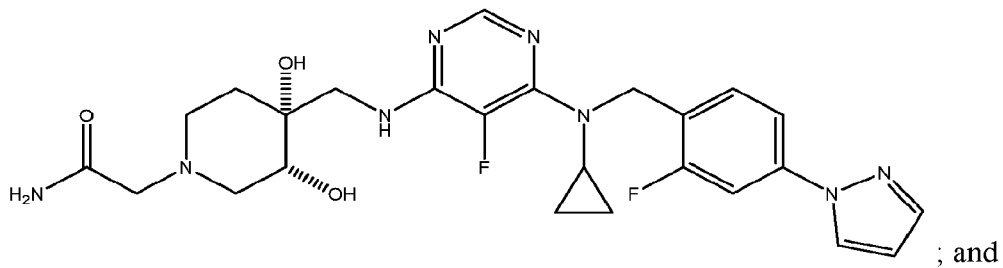
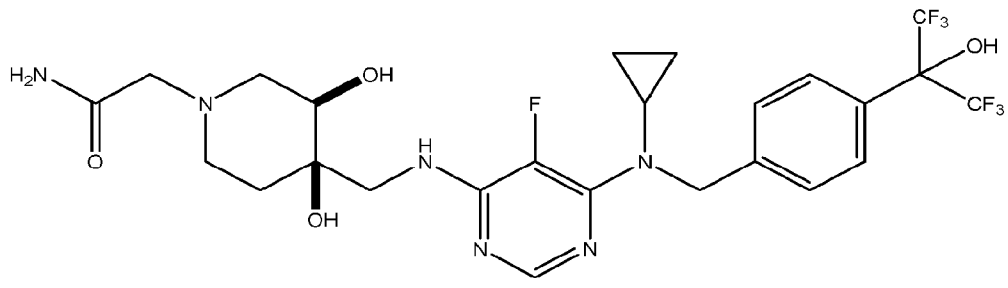
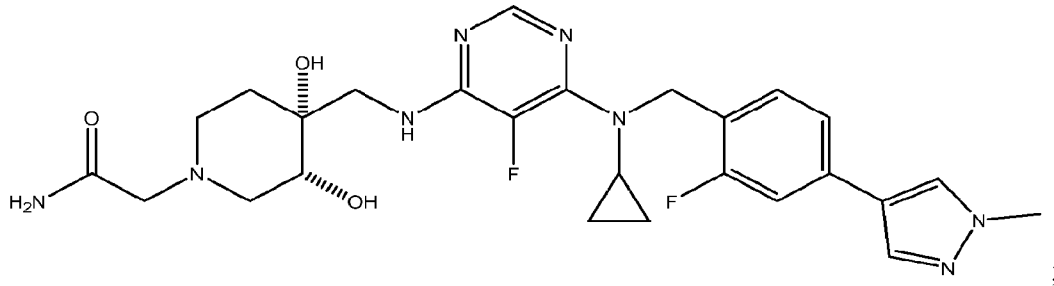
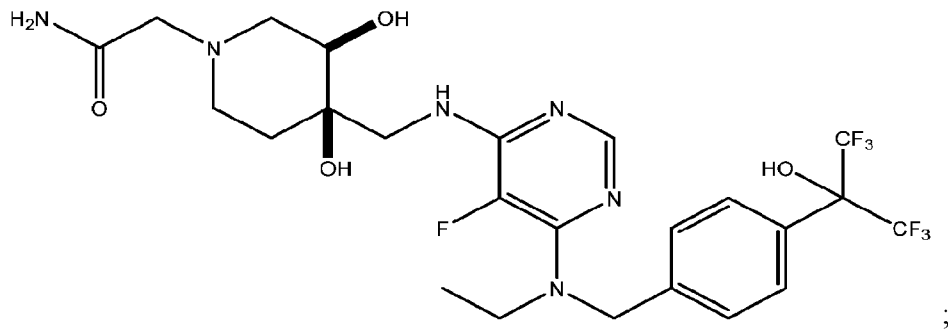
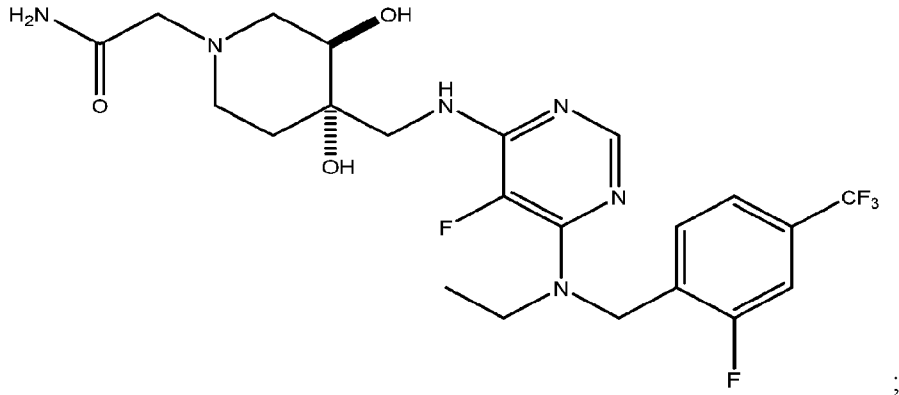


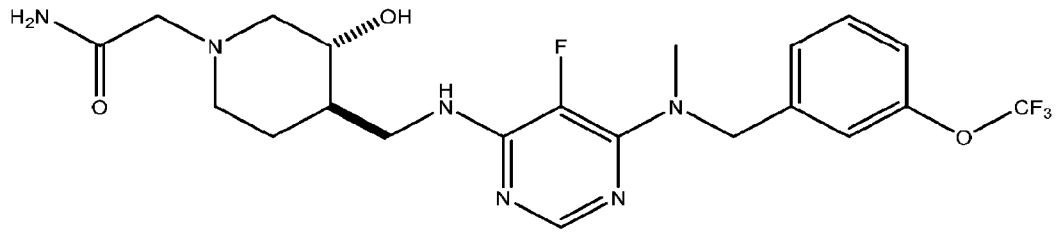
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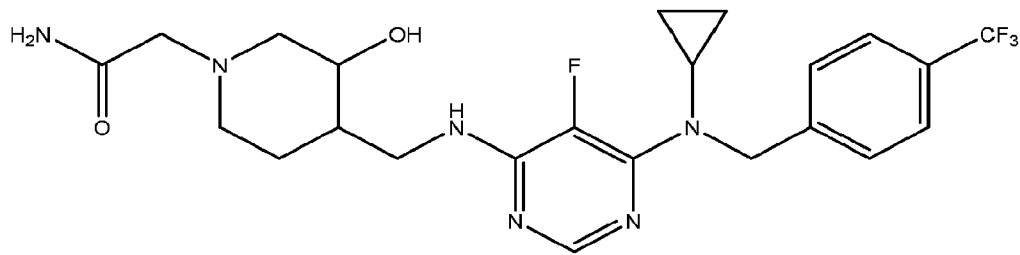




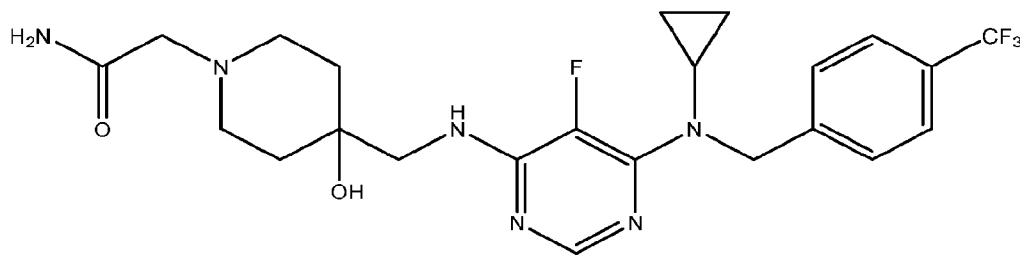
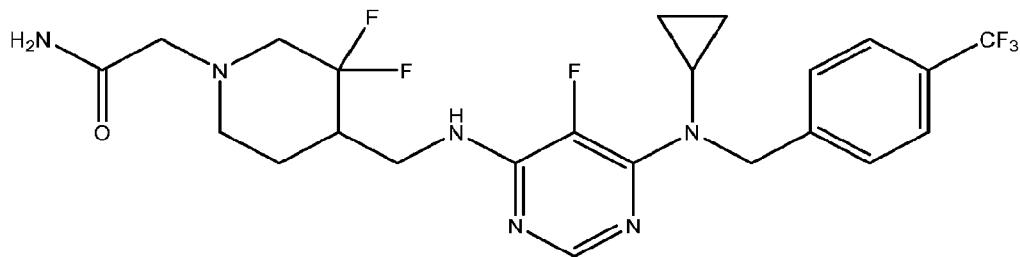
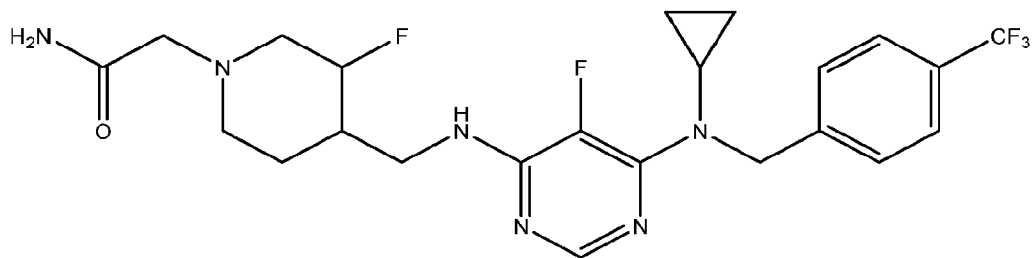


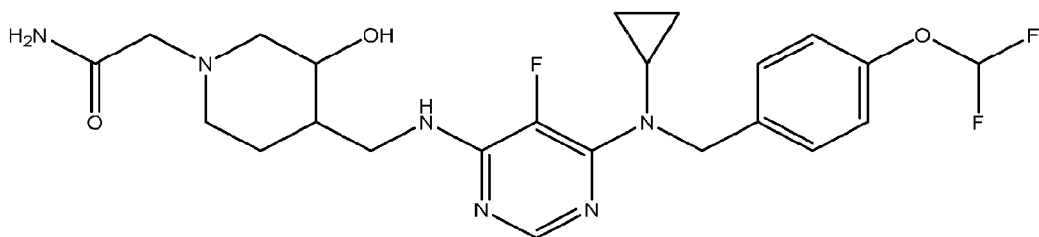
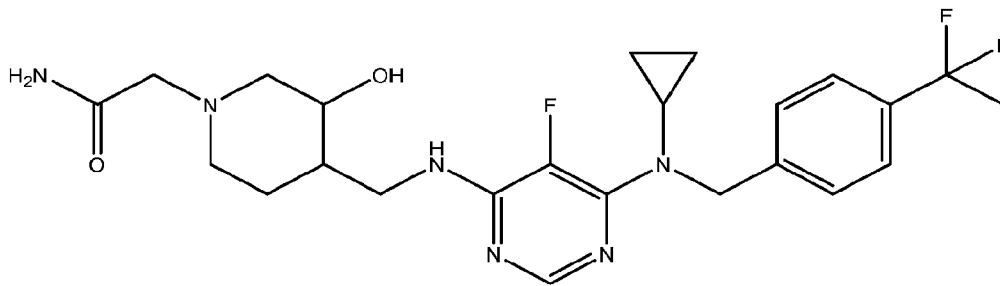
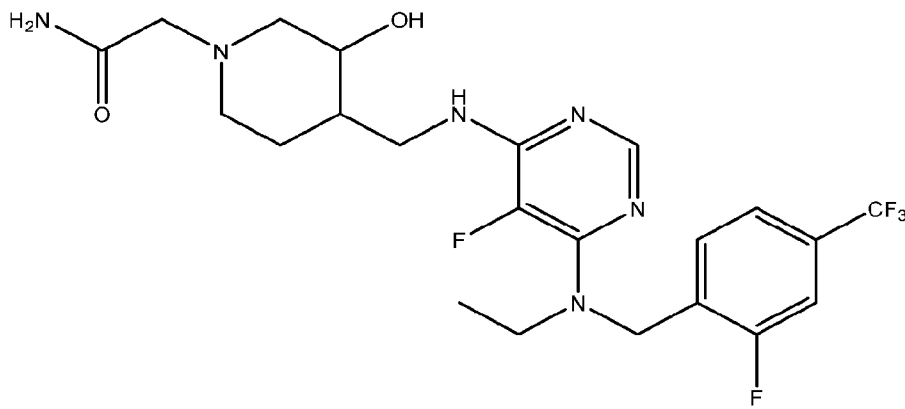
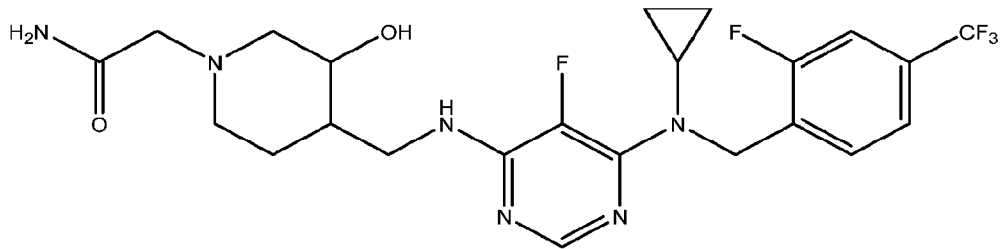
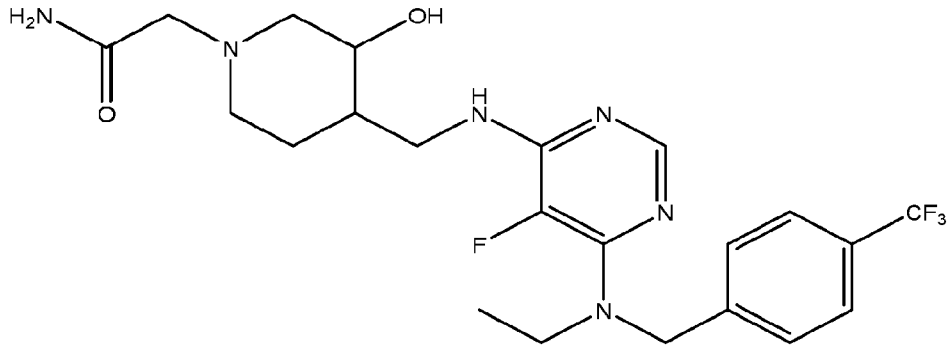
or a stereoisomer or salt or salt of a stereoisomer thereof.

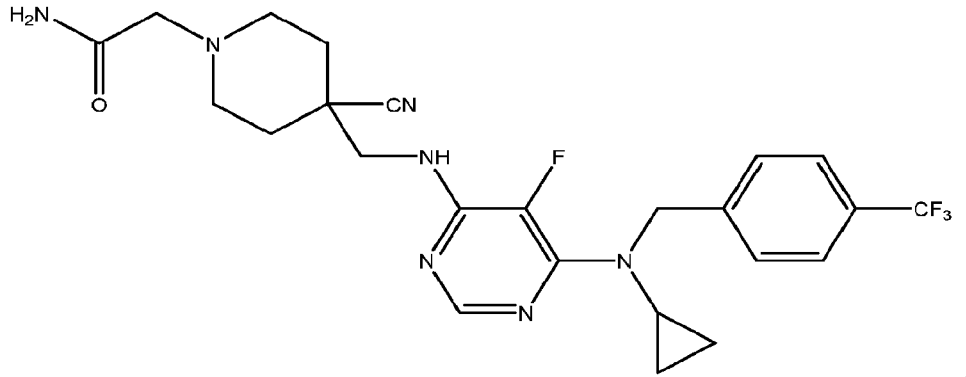
In an embodiment, the compound has a structure selected from the group consisting of:



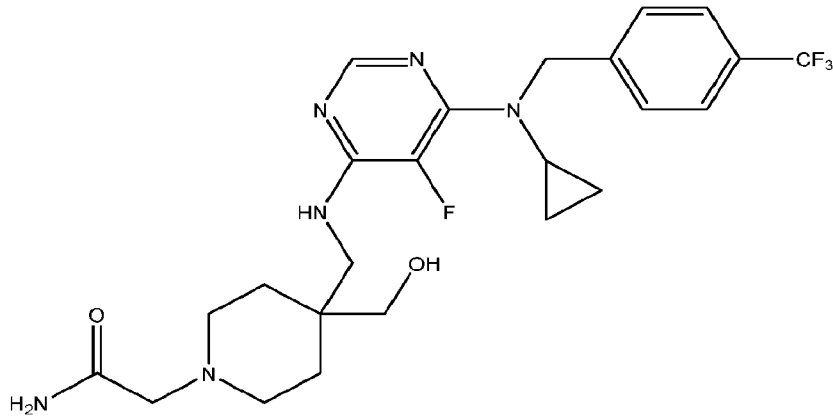
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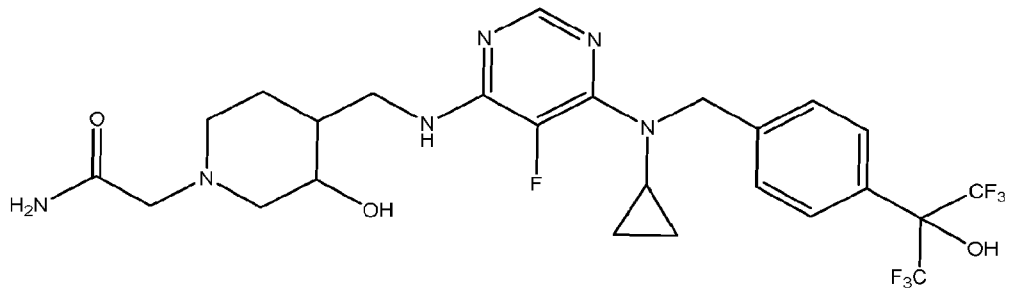




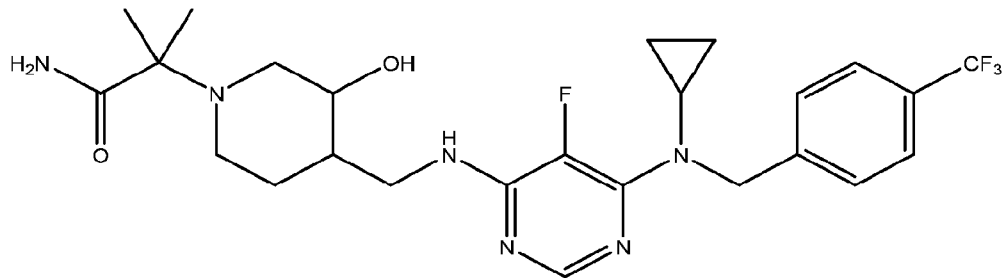
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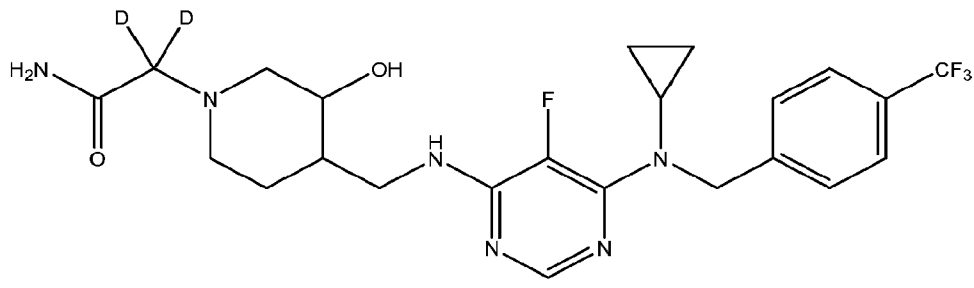
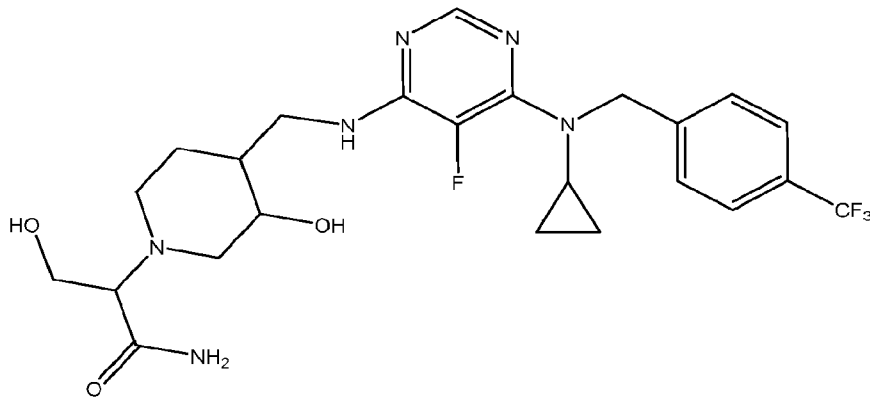
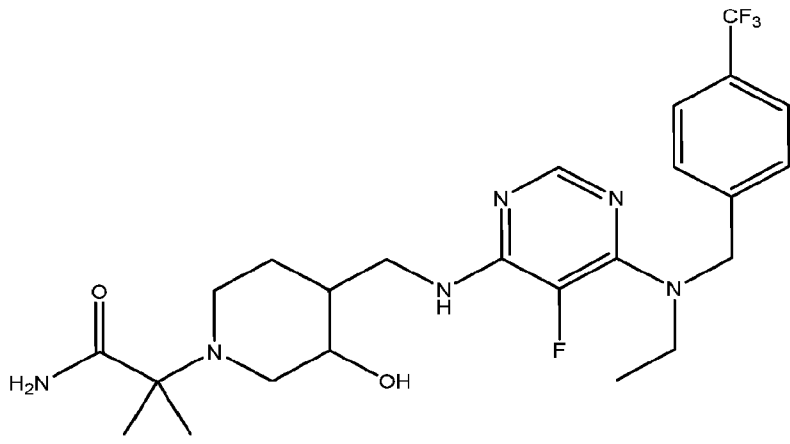
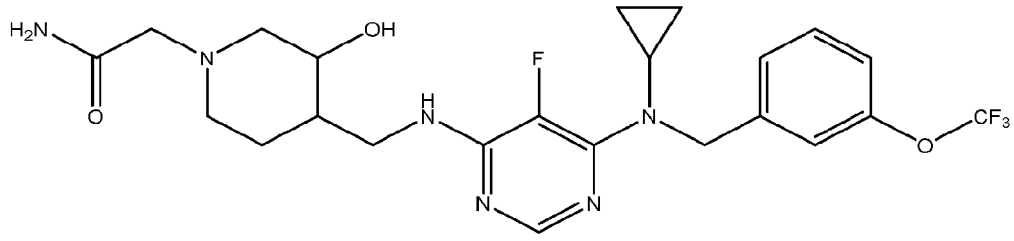
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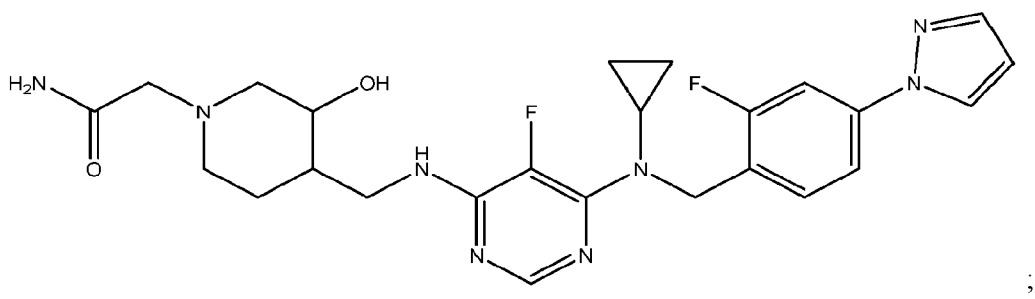
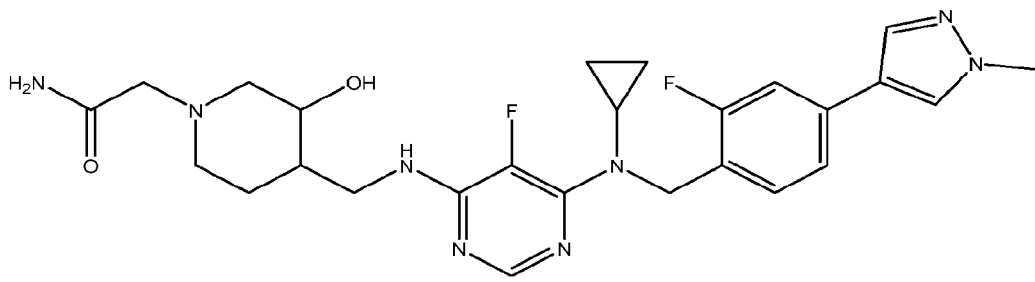
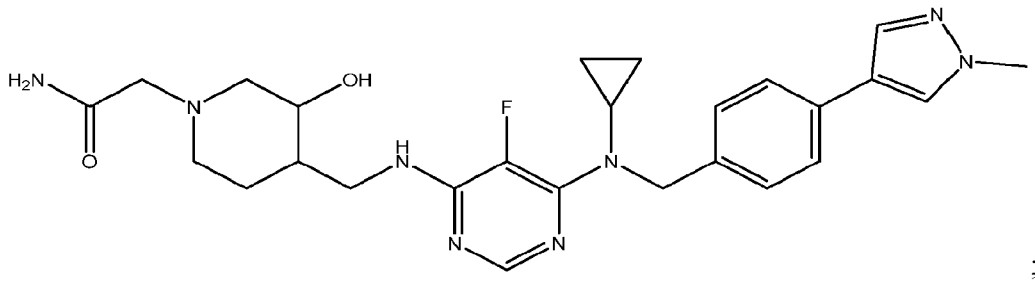
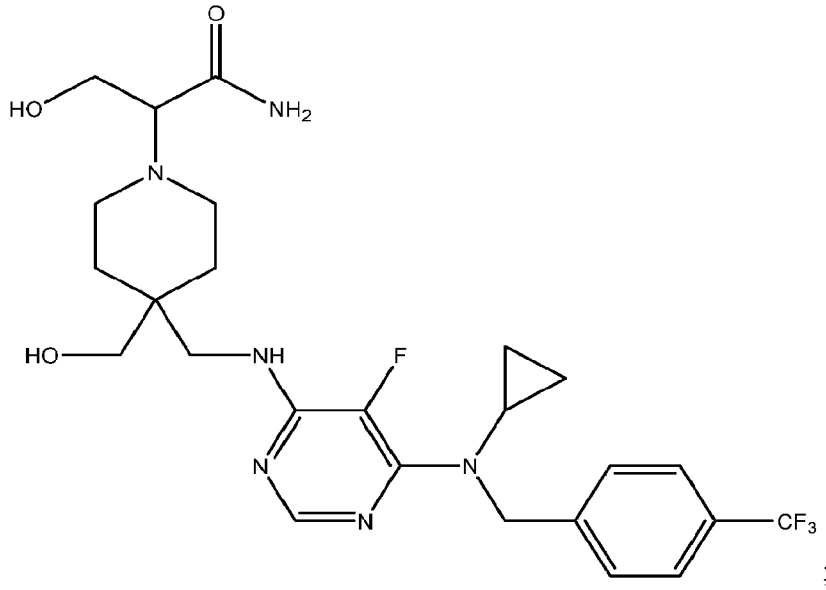


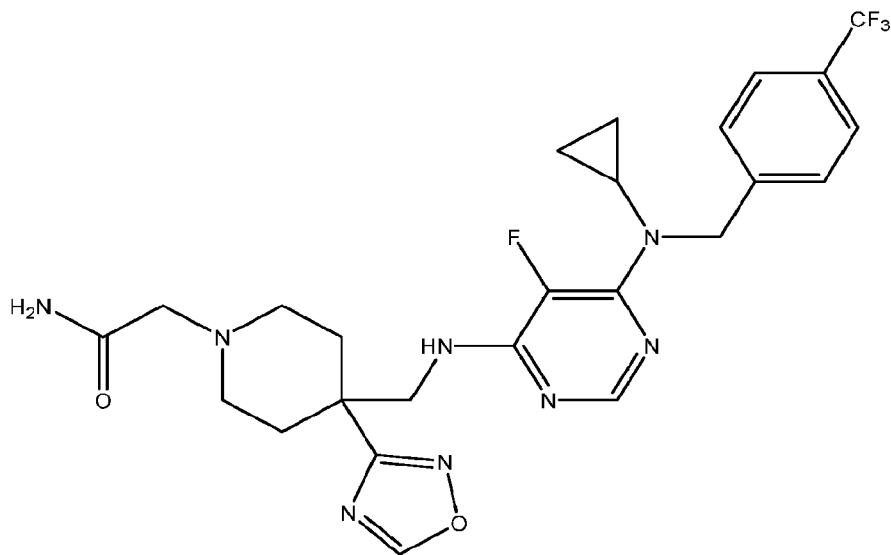
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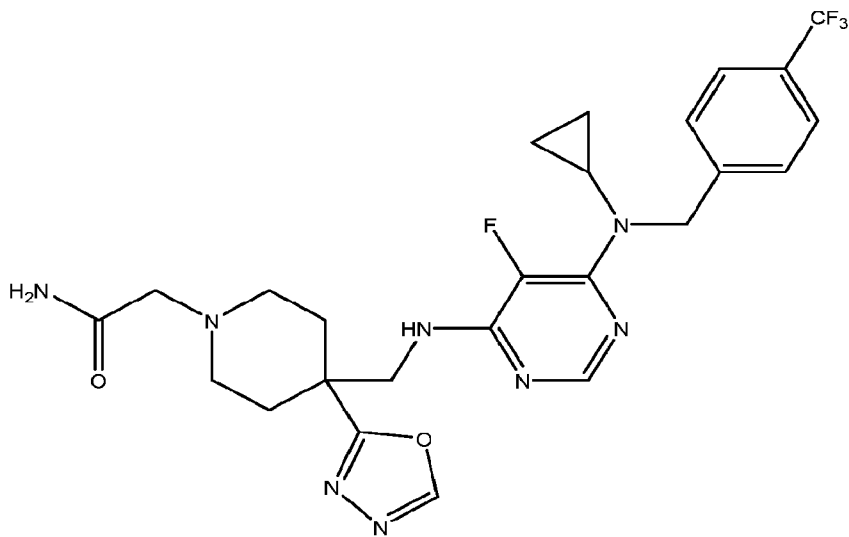
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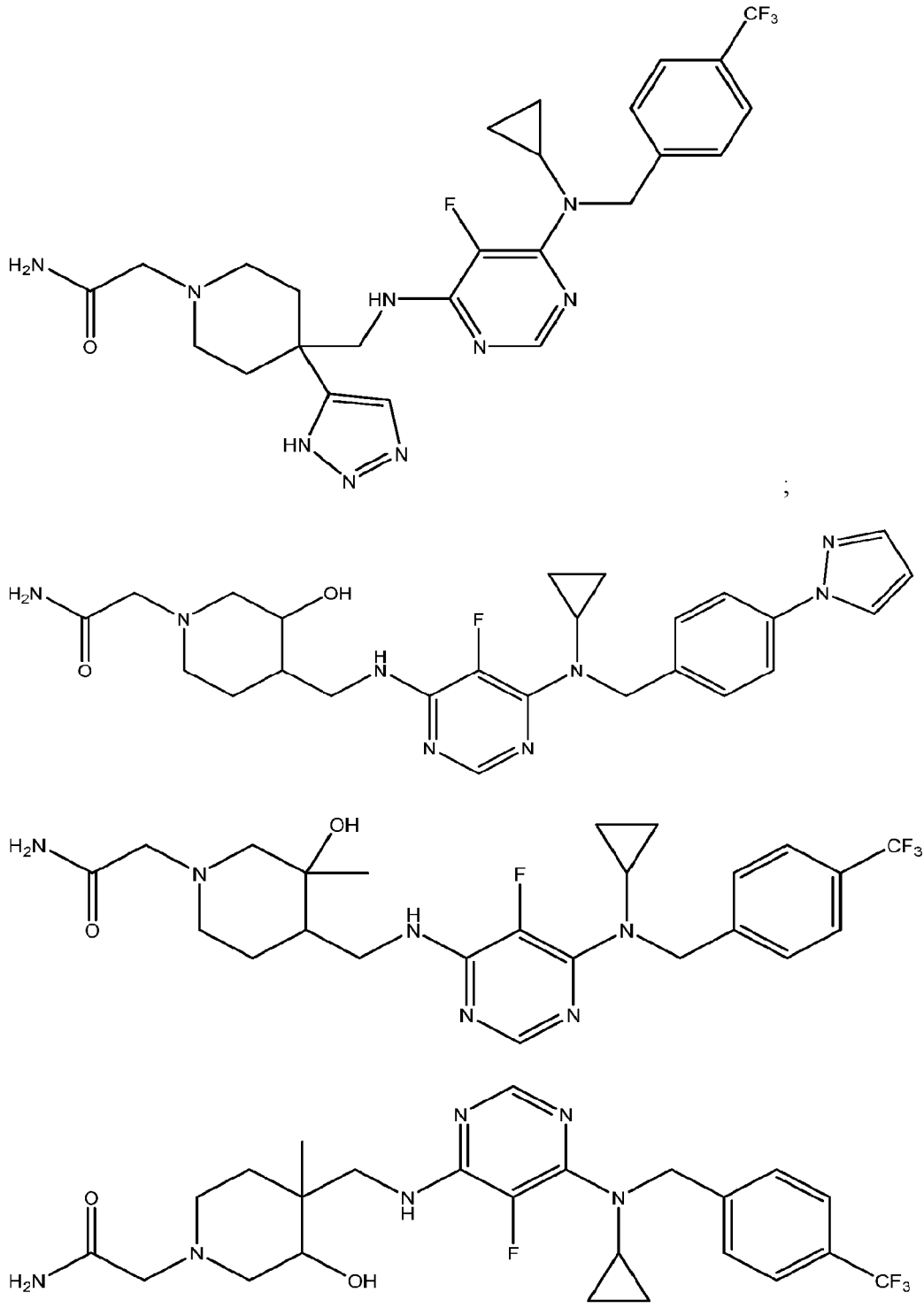


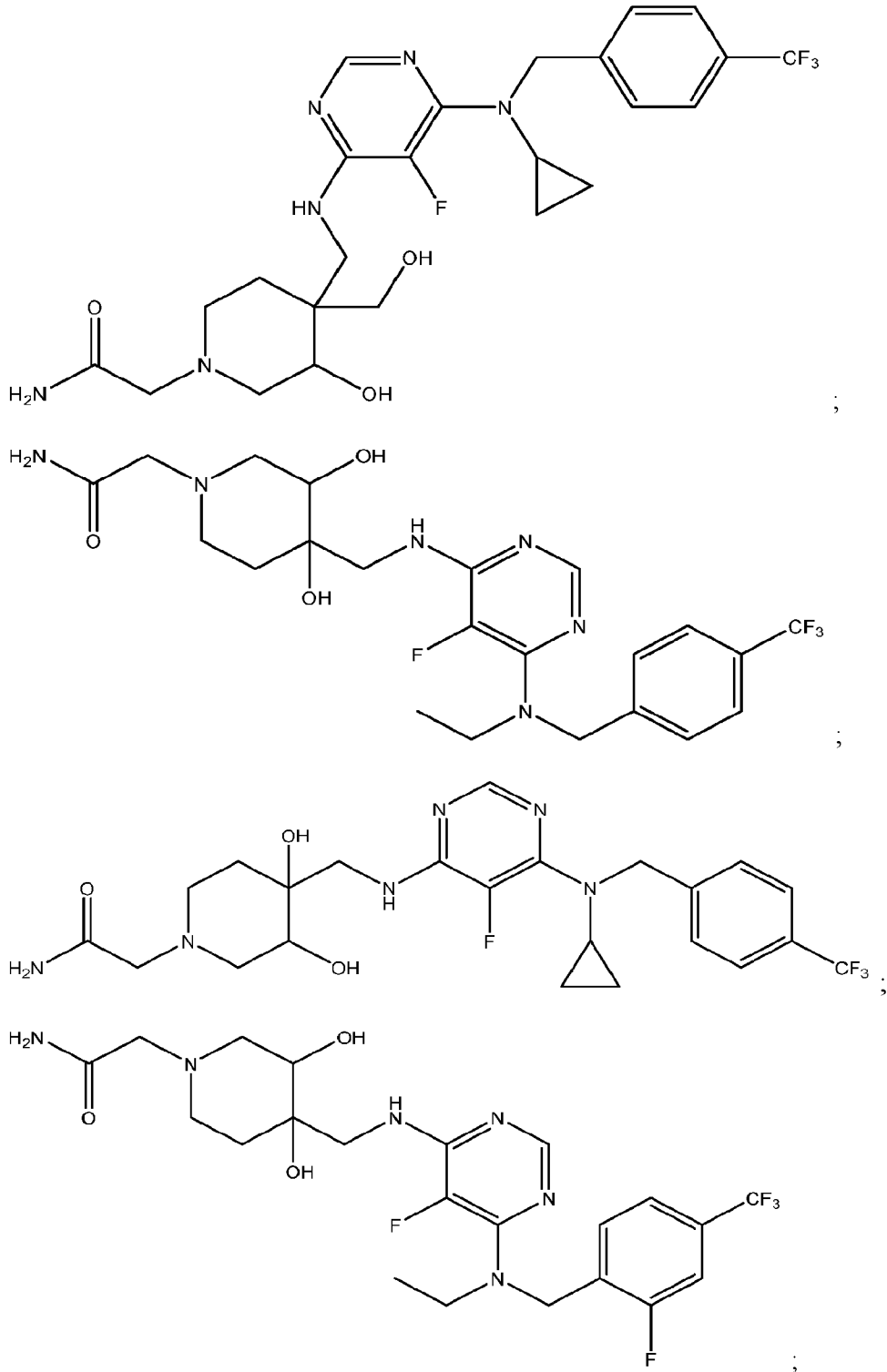


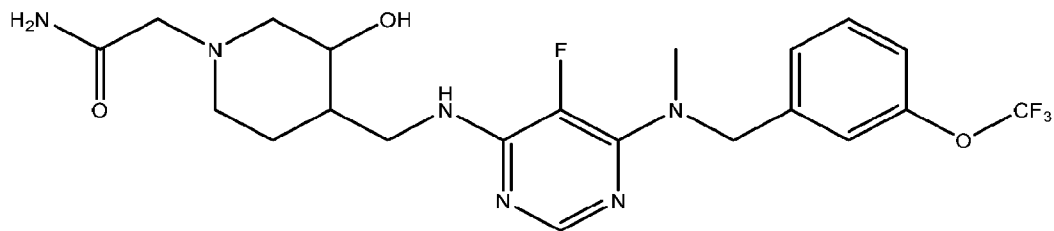
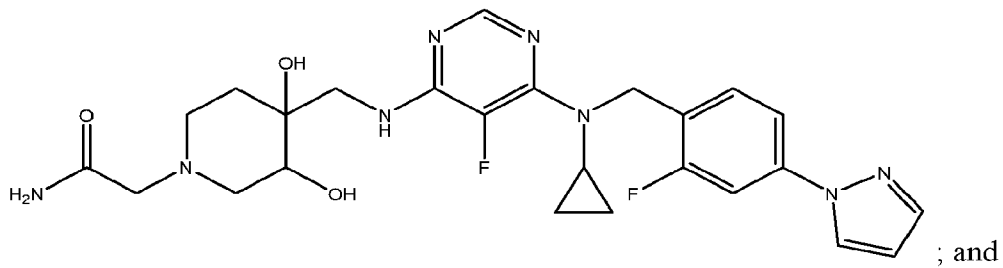
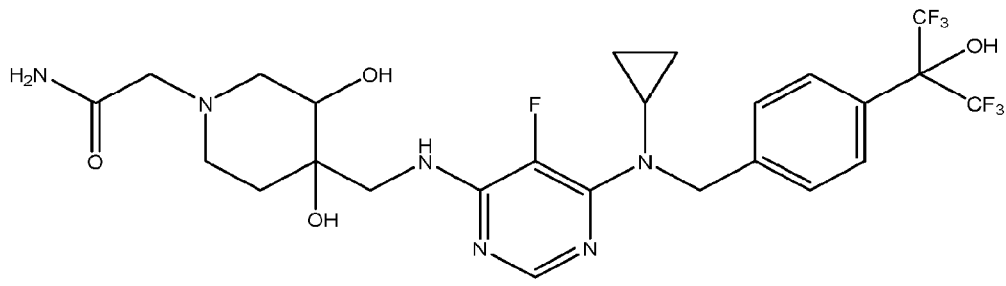
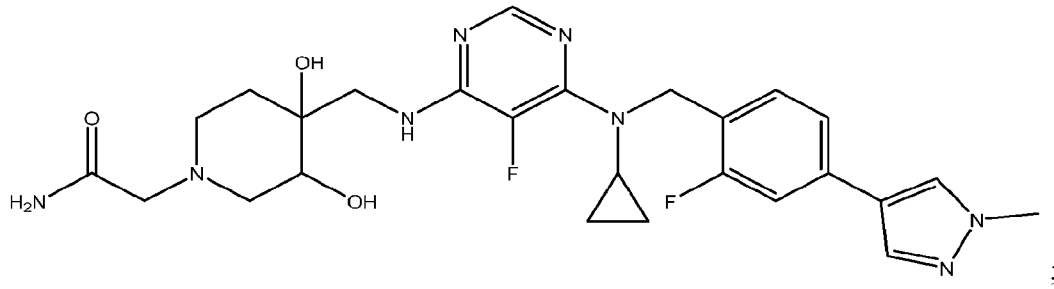
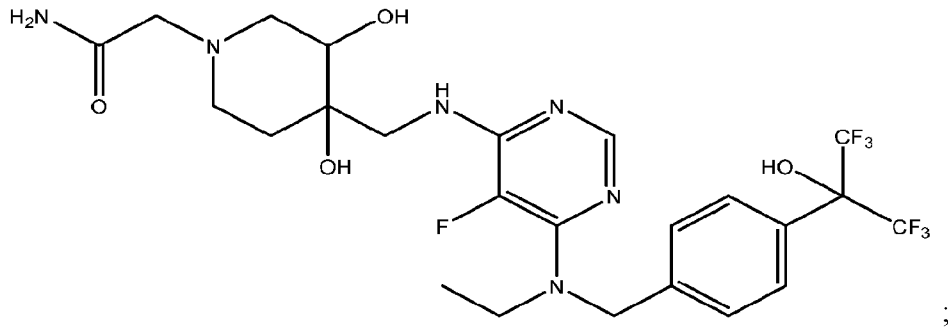
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or a stereoisomer or salt or salt of a stereoisomer thereof.

In a preferred embodiment, the compound of the invention is:

2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide.

5 In a preferred embodiment, the compound of the invention is:

2-((3*S*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

10 2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

15 2-((3*S*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

20 2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

25 In a preferred embodiment, the compound of the invention is:

2-((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

30 2-((3*S*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

5 2-((3*S*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

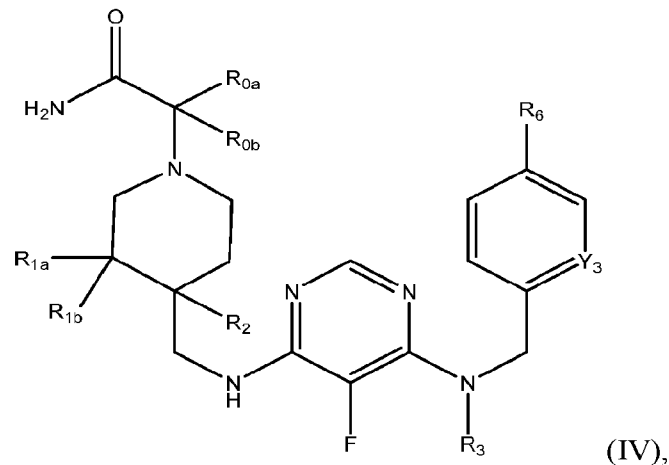
10 2-((3*R*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In a preferred embodiment, the compound of the invention is:

15 2-((3*S*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide.

In other particular embodiment, the present disclosure relates to compounds of formula (I) or salt, stereoisomer, or salt of a stereoisomer thereof, wherein R_{0a} is selected from the group consisting of -CN, substituted or unsubstituted heteroalicycyl and substituted or unsubstituted heteroaryl; and R_{0b} is hydrogen or C_{1-4} alkyl. In some preferred embodiments
20 R_{0a} is substituted or unsubstituted heteroaryl. In other more preferred embodiments R_{0a} is substituted or unsubstituted pyridinyl. In still more preferred embodiments R_{0b} is hydrogen.

In some embodiments disclosed herein, the compound, stereoisomer, or salt has a structure of Formula (IV):



wherein:

R_{0a} is a substituted or unsubstituted pyridinyl; R_{0b} is hydrogen; R_{1a} is hydroxyl;

R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R_3 is ethyl or cyclopropyl;

5 R_6 is CF_3 ; and Y_3 is CR_8 , wherein R_8 is hydrogen or fluoro.

In some embodiments disclosed herein, R_{0a} is selected from the group consisting of CN, pyridinyl, and tetrahydropyranyl; R_{0b} is hydrogen; R_{1a} is hydroxyl; R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R_3 is ethyl or cyclopropyl; R_4 is hydrogen; R_5 is hydrogen; R_6 is CF_3 ; R_7 is hydrogen; and Y_1 , Y_2 and Y_3 are each CH.

10 In some embodiments disclosed herein, R_{0a} is pyridinyl; R_{0b} is hydrogen; R_{1a} is hydroxyl; R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R_3 is ethyl or cyclopropyl; R_4 is hydrogen; R_5 is hydrogen; R_6 is CF_3 ; R_7 is hydrogen; and Y_1 , Y_2 and Y_3 are each CH.

15 In other embodiment the present disclosure relates to a compound of Formula (I) or a salt, stereoisomer, or salt of a stereoisomer thereof, wherein: R_{0a} is selected from the group consisting of $-CN$, pyridinyl and tetrahydropyranyl; R_{0b} is hydrogen; R_{1a} is hydroxyl; R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R_3 is ethyl or cyclopropyl; R_4 is hydrogen; R_5 is hydrogen; R_6 is $-CF_3$; R_7 is hydrogen; and Y_1 , Y_2 and Y_3 are each $-CH-$.

20 In other more preferred embodiment, the present disclosure relates to a compound of Formula (I) or a salt, stereoisomer, or salt of a stereoisomer thereof, wherein: R_{0a} is pyridinyl; R_{0b} is hydrogen; R_{1a} is hydroxyl; R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R_3 is ethyl or cyclopropyl; R_4 is hydrogen; R_5 is hydrogen; R_6 is $-CF_3$; R_7 is hydrogen; and Y_1 , Y_2 and Y_3 are each $-CH-$.

In other embodiment disclosed herein, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-59

5 *rac*-2-cyano-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-62

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

A7-63

10 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

A7-71

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide,

15 **D5-7”**

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, enantiomerically enriched,

D5-7-1

20 *rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide or *rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, 1st eluting major isomer,

25 **D5-7-2**

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide or *rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, 2nd eluting major isomer, and

30

D5-8”

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, enantiomerically enriched.

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-59

- 5 *rac*-2-cyano-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

A7-62

rac-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

- 10 **A7-63**

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

A7-71

- 15 *rac*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide,

D5-7"

rel-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

D5-7-1

- 20 *rel*-(*R*)-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rel-(*R*)-2-(((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and

D5-8"

- 25 *rel*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

- 30

2-cyano-2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide,

- 5 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

- 10 In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-62

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

- 15 **A7-63**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

D5-7”

- 20 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, enantiomerically enriched,

D5-7-1

- rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide or *rel*-(*R*)-2-
25 ((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, 1st eluting major isomer,

D5-7-2

- rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide or *rel*-(*R*)-2-
30 ((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, 2nd eluting major isomer, and

D5-8”

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide, enantiomerically enriched.

5 In some cases, the compound, salt, stereoisomer, or salt of a stereoisomer according to Formula (I) is selected from the group consisting of:

A7-62

rac-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

10 **A7-63**

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

D5-7”

15 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

D5-7-1

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

20 *rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and

D5-8”

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

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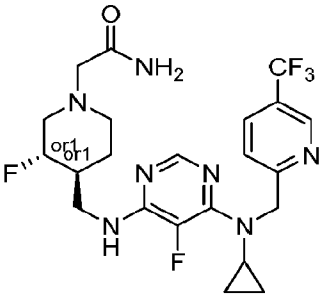
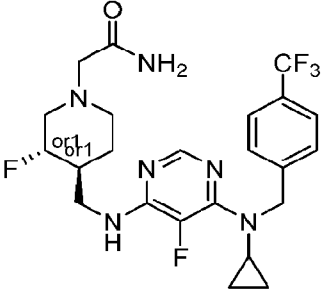
In some embodiments whenever a halogen is specified as a substituent the halogen is selected from fluoro or chloro.

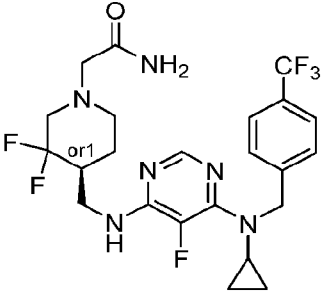
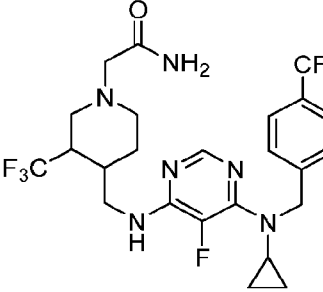
Embodiments and particular disclosures used herein are to illustrate different alternatives of the disclosure and embodiments may be combined with other applicable
30 embodiments.

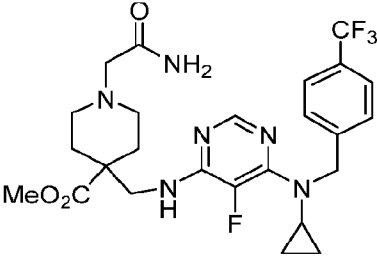
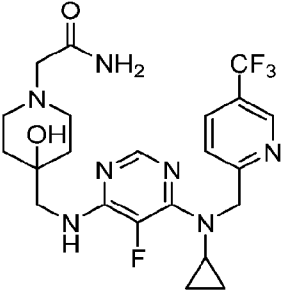
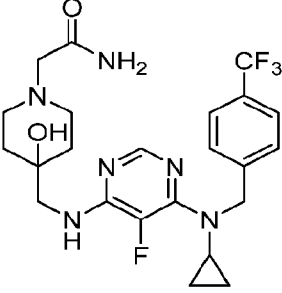
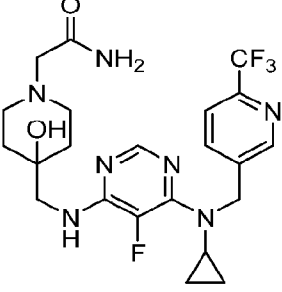
Specific examples of compounds are disclosed in Table 1 below.

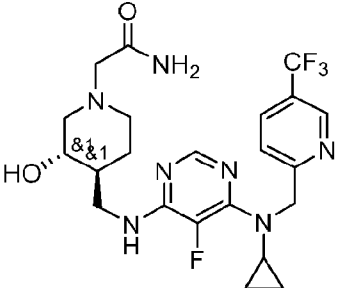
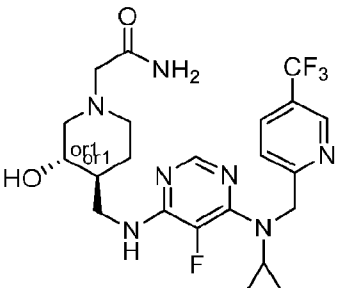
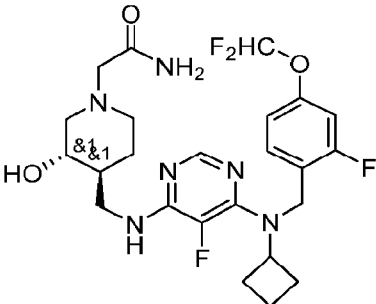
Table 1. Example compounds by Structure and Name.

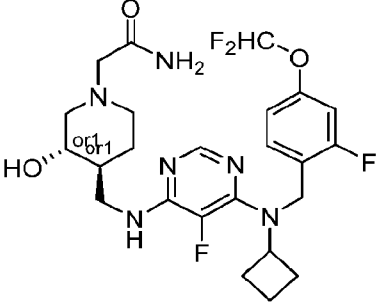
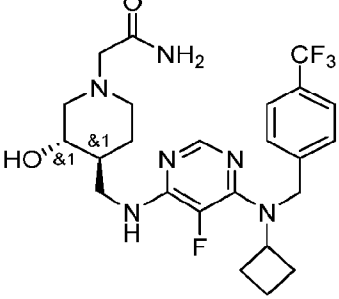
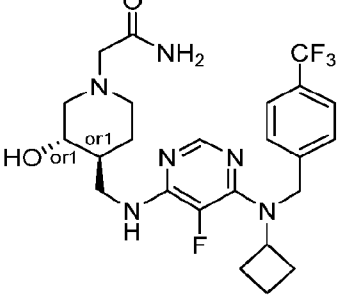
Ex. N°	Structure	Name
A7-1		A7-1 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-1-1		A7-1-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-1-2		A7-1-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-2		A7-2 2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-3-1		A7-3-1 <i>rel</i> -(<i>R</i>)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 1 st eluting isomer

A7-3-2		A7-3-2 <i>rel-(R)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide</i> 2 nd eluting isomer
A7-4-1		A7-4-1 <i>rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide</i> 1 st eluting isomer
A7-4-2		A7-4-2 <i>rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide</i> 2 nd eluting isomer
A7-5-1		A7-5-1 <i>rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide</i> 1 st eluting isomer
A7-5-2		A7-5-2 <i>rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide</i> 2 nd eluting isomer

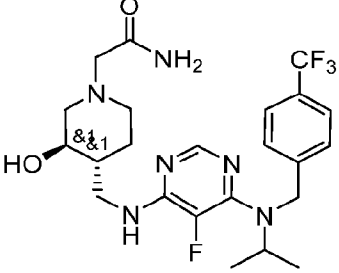
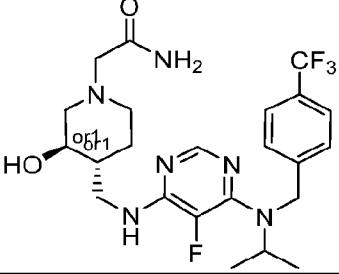
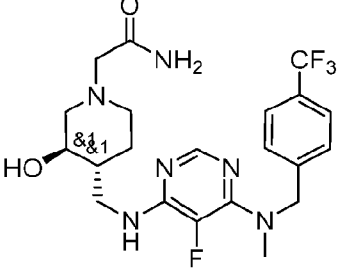
A7-6-1		A7-6-1 <i>rel-(R)</i> -2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 1 st eluting isomer
A7-6-2		A7-6-2 <i>rel-(R)</i> -2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 2 nd eluting isomer
A7-7-1		A7-7-1 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 1 st eluting isomer
A7-7-2		A7-7-2 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 2 nd eluting isomer
A7-7-3		A7-7-3 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 3 rd eluting isomer

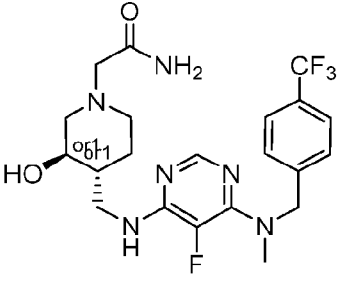
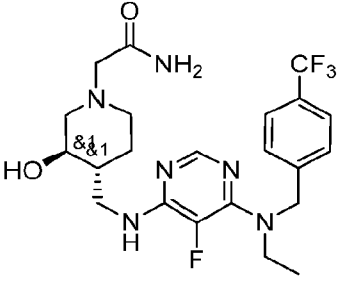
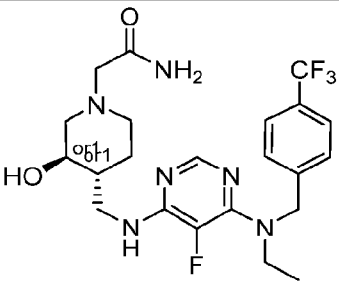
A7-7-4		<p>A7-7-4 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 4th eluting isomer</p>
A7-8		<p>A7-8 methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate</p>
A7-9		<p>A7-9 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide</p>
A7-10		<p>A7-10 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide</p>
A7-11		<p>A7-11 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide</p>

A7-14		A7-14 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-14-1		A7-14-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-14-2		A7-14-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-15		A7-15 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

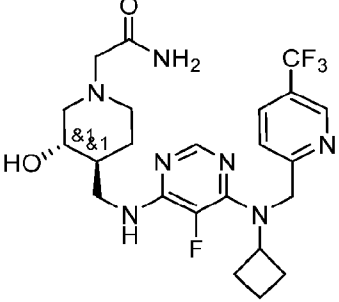
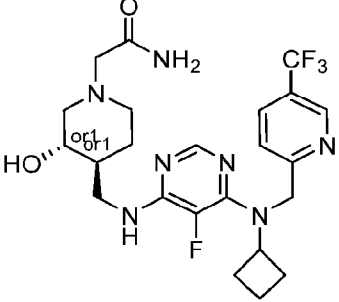
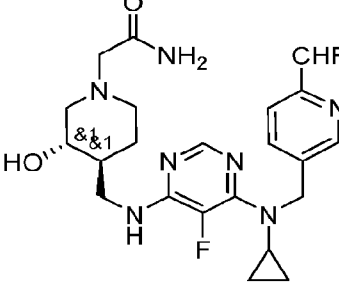
A7-15-1		A7-15-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-15-2		A7-15-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-16		A7-16 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-16-1		A7-16-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-16-2		A7-16-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer

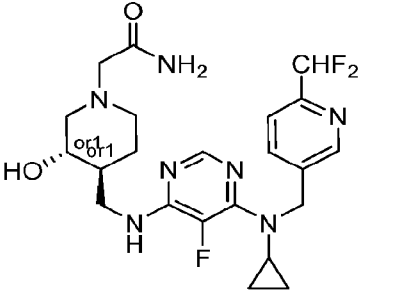
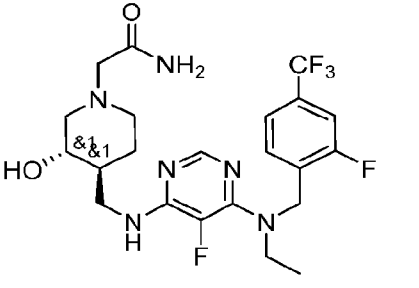
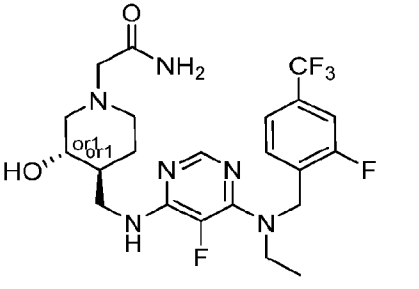
A7-17		A7-17 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-17-1		A7-17-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-17-2		A7-17-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-18		A7-18 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-18-1		A7-18-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer

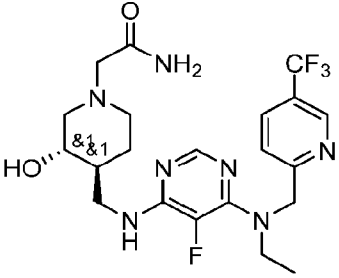
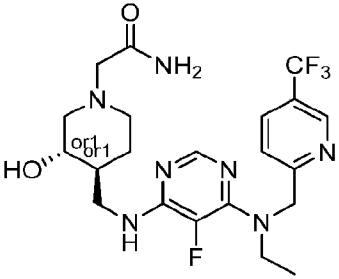
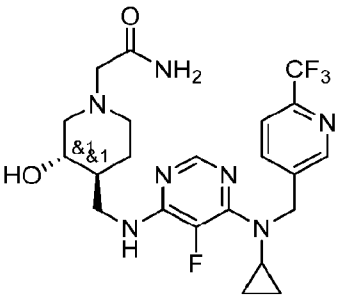
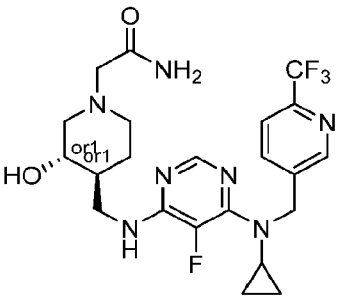
A7-18-2		<p>A7-18-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
A7-19		<p>A7-19 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
A7-19-1		<p>A7-19-1 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
A7-19-2		<p>A7-19-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
A7-20		<p>A7-20 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

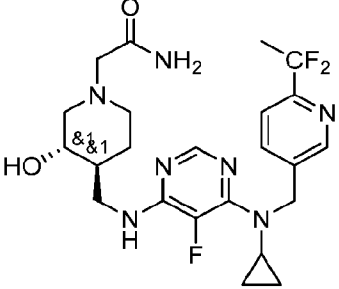
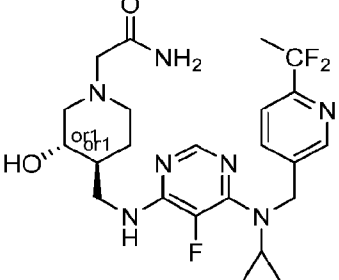
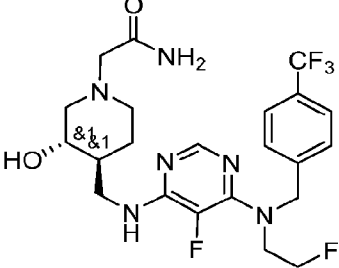
A7-20-1		A7-20-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-20-2		A7-20-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-21		A7-21 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-21-1		A7-21-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-21-2		A7-21-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer

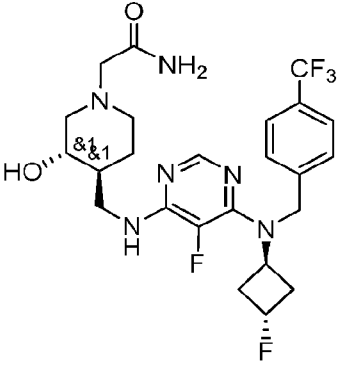
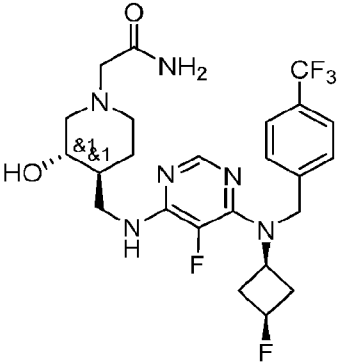
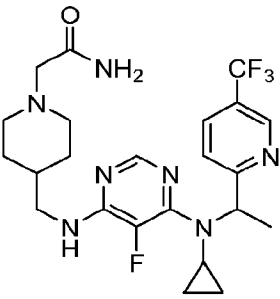
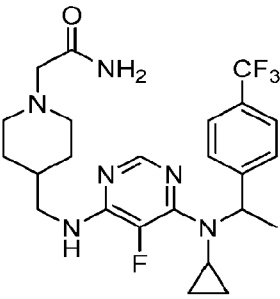
A7-22		A7-22 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-22-1		A7-22-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-22-2		A7-22-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-23		A7-23 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-23-1		A7-23-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer

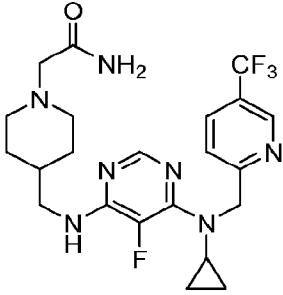
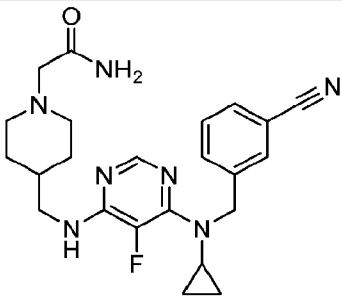
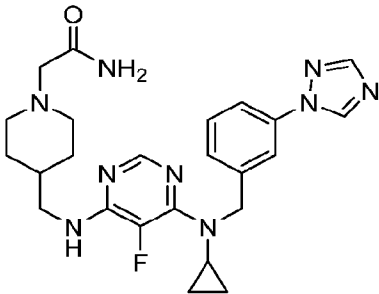
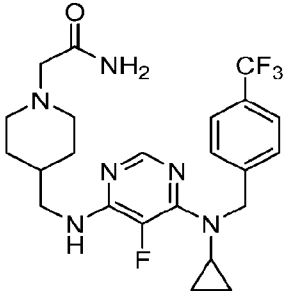
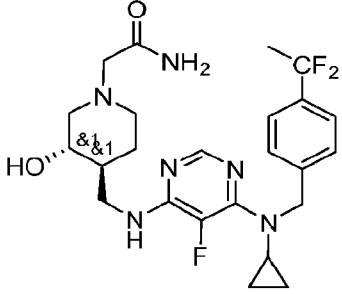
A7-23-2		A7-23-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-24		A7-24 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-24-1		A7-24-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-24-2		A7-24-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-25		A7-25 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

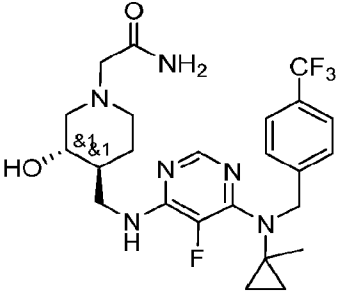
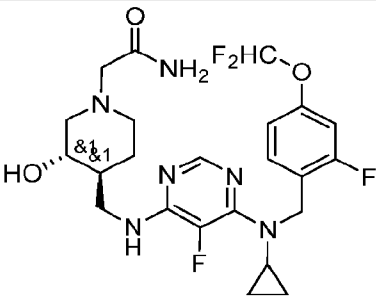
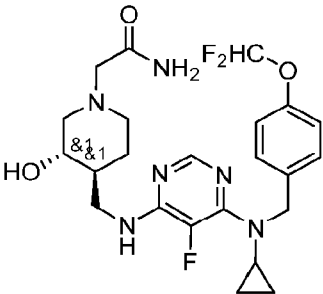
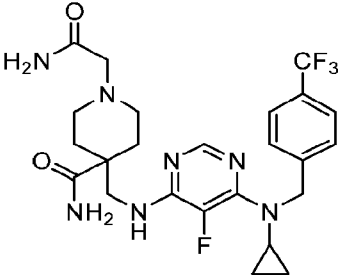
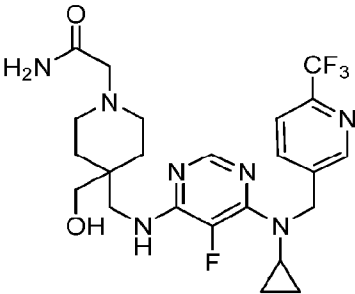
A7-25-1		A7-25-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-25-2		A7-25-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-26		A7-26 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-26-1		A7-26-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-26-2		A7-26-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer

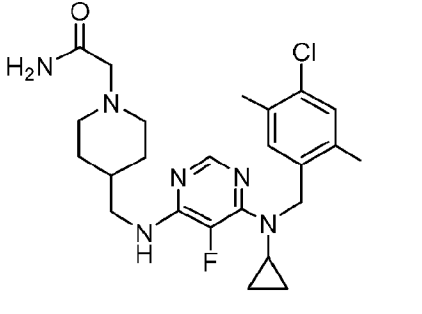
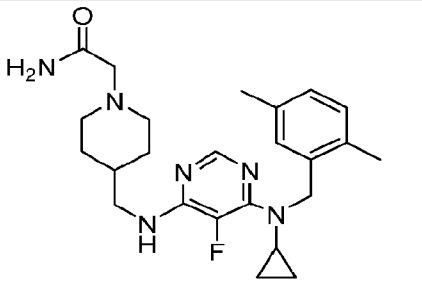
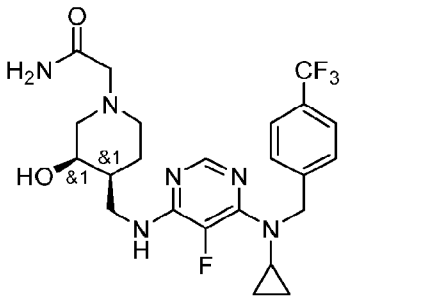
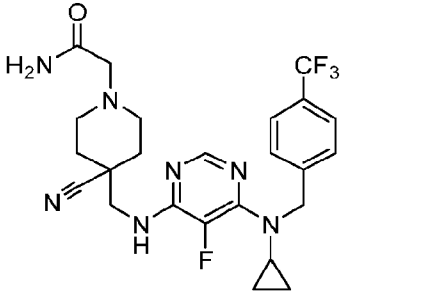
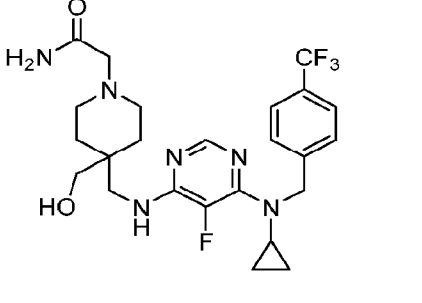
A7-27		A7-27 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-27-1		A7-27-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer
A7-27-2		A7-27-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-28		A7-28 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-28-1		A7-28-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer

A7-28-2		<p>A7-28-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
A7-29		<p>A7-29 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
A7-29-1		<p>A7-29-1 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
A7-29-2		<p>A7-29-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
A7-30		<p>A7-30 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

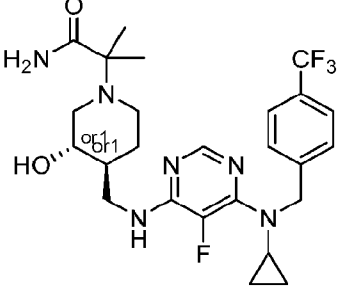
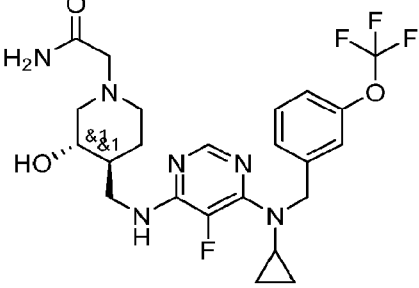
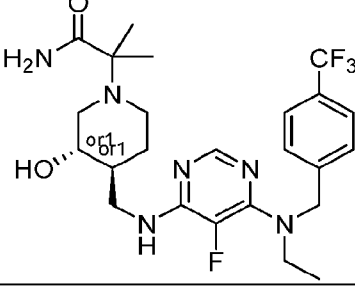
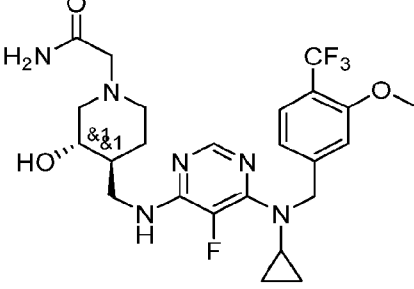
A7-31		A7-31 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(((1 <i>r</i> ,3 <i>S</i>)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-32		A7-32 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(((1 <i>s</i> ,3 <i>R</i>)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-33		A7-33 2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-34		A7-34 2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide

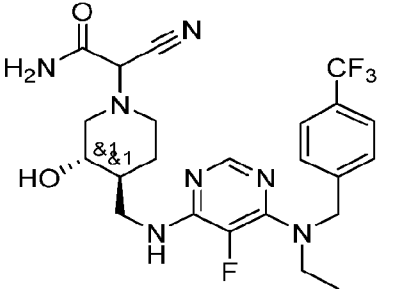
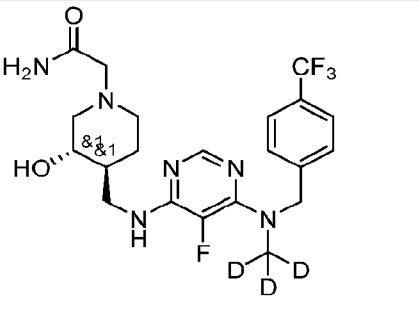
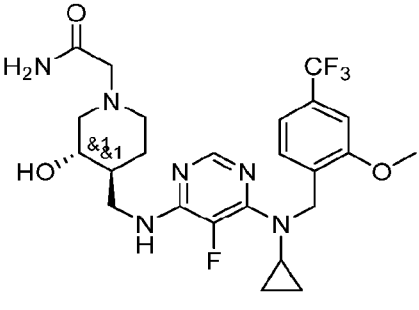
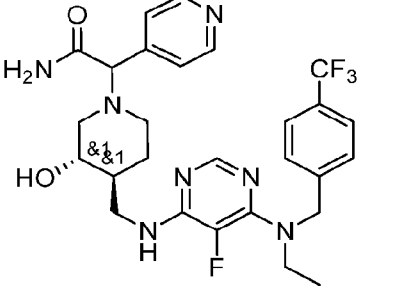
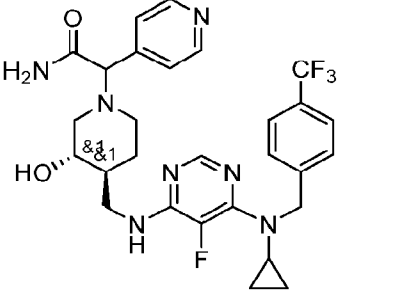
A7-35		A7-35 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-36		A7-36 2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-38		A7-38 2-(4-(((6-((3-(1H-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-39		A7-39 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-40		A7-40 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

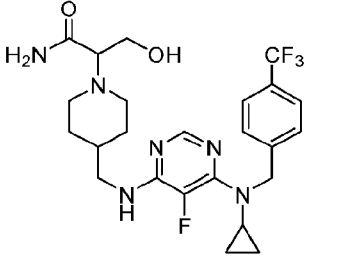
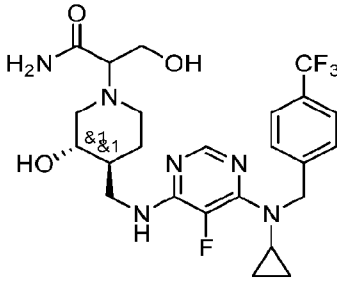
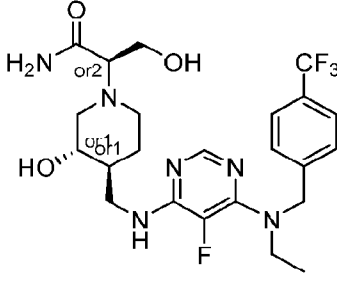
A7-41		A7-41 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-42		A7-42 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl)(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-43		A7-43 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl)(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-44		A7-44 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl)(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide
A7-45		A7-45 2-(4-(((6-(cyclopropyl)((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide

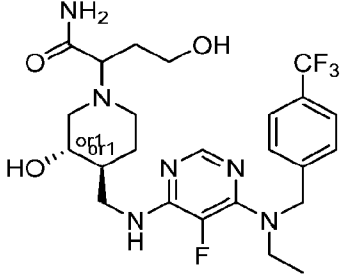
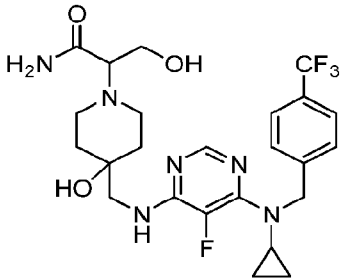
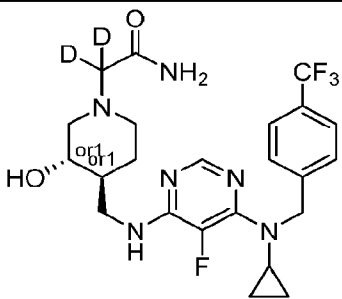
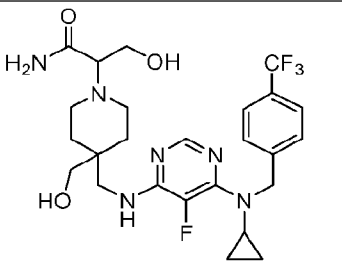
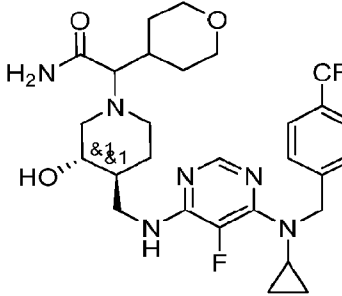
A7-46		A7-46 2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-47		A7-47 2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-49		A7-49 <i>rac</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-50		A7-50 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-51		A7-51 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide

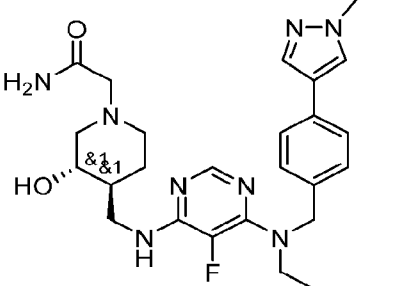
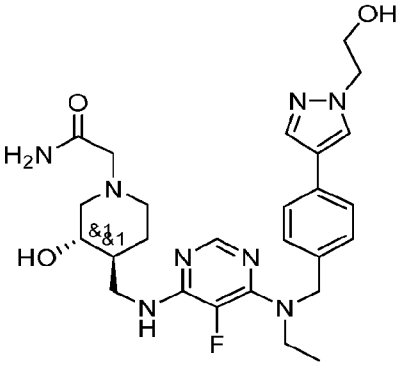
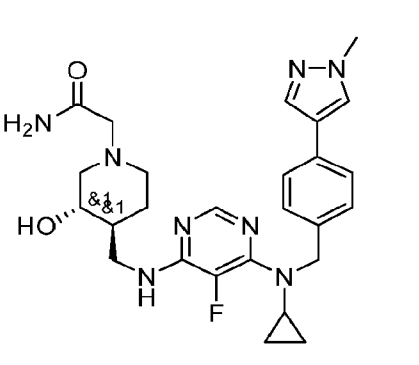
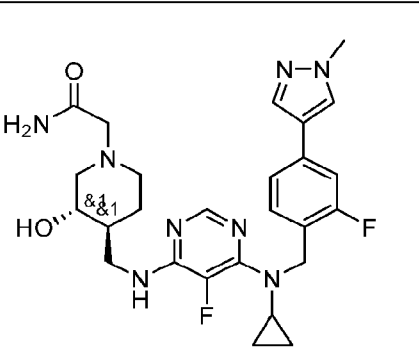
A7-52		A7-52 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide
A7-53		A7-53 2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide
A7-54		A7-54 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-54-1		A7-54-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1 st eluting isomer

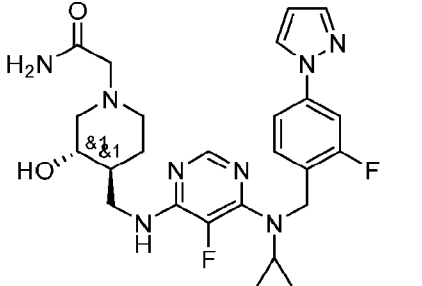
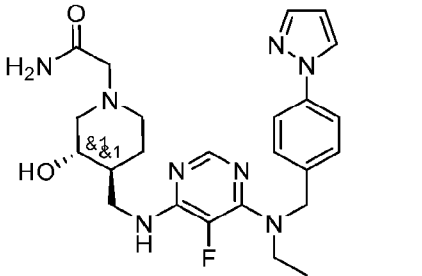
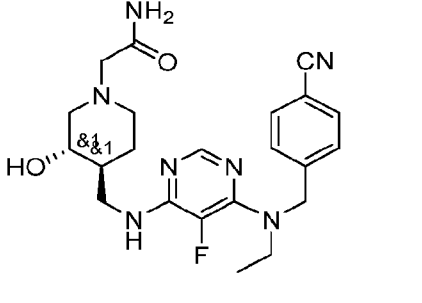
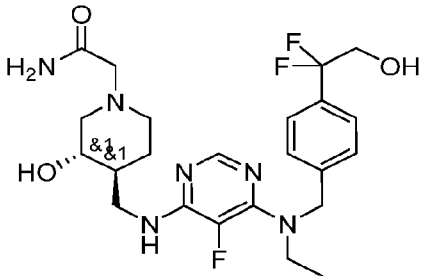
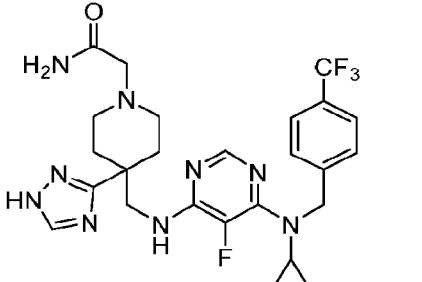
A7-54-2		A7-54-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
A7-55^{''} Enantiomeric ally enriched		A7-55^{''} <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide Enantiomerically enriched
A7-56		A7-56 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-57^{''} Enantiomeric ally enriched		A7-57^{''} <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide Enantiomerically enriched
A7-58		A7-58 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

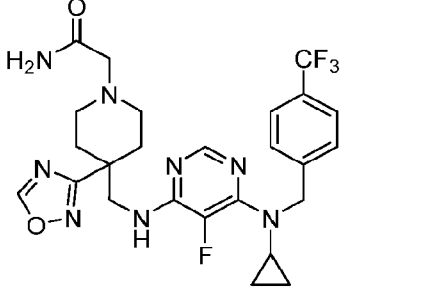
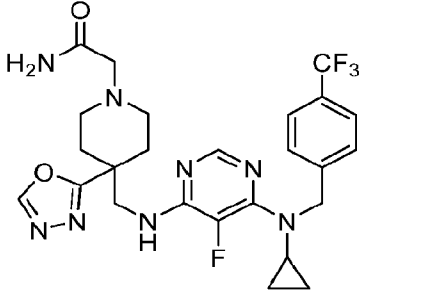
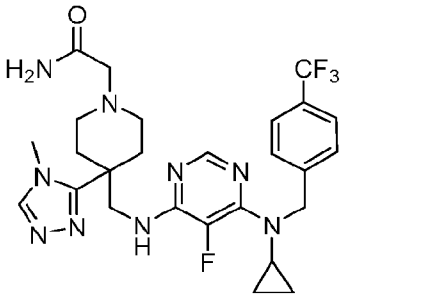
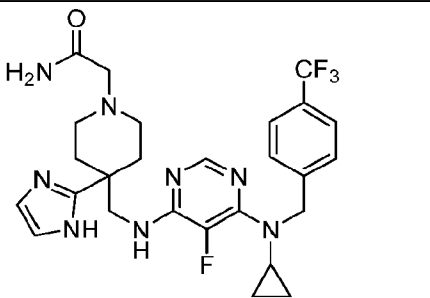
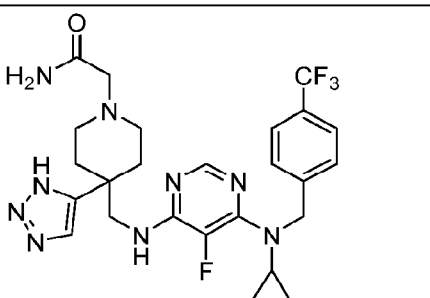
A7-59		A7-59 <i>rac</i> -2-cyano-2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-60		A7-60 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-((methyl- <i>d</i> ₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-61		A7-61 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-62		A7-62 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide
A7-63		A7-63 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide

<p>A7-64</p>		<p>A7-64 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide</p>
<p>A7-65</p>		<p>A7-65 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide</p>
<p>A7-66-1</p>		<p>A7-66-1 <i>rel</i>-(<i>R</i>)-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide OR <i>rel</i>-(<i>R</i>)-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide 1st eluting major isomer</p>
<p>A7-66-2</p>		<p>A7-66-2 <i>rel</i>-(<i>R</i>)-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide OR <i>rel</i>-(<i>R</i>)-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide 2nd eluting major isomer.</p>

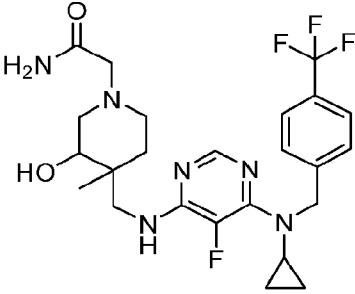
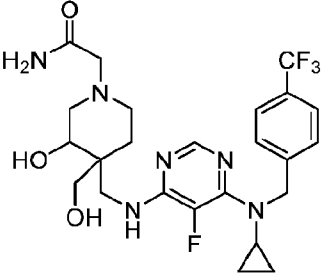
<p>A7-67''</p> <p>Enantiomeric ally enriched</p>		<p>A7-67''</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide</p> <p>Enantiomerically enriched</p>
<p>A7-68</p>		<p>A7-68</p> <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide</p>
<p>A7-69''</p> <p>Enantiomeric ally enriched</p>		<p>A7-69''</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-<i>d</i>₂</p> <p>Enantiomerically enriched</p>
<p>A7-70</p>		<p>A7-70</p> <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide</p>
<p>A7-71</p>		<p>A7-71</p> <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2<i>H</i>-pyran-4-yl)acetamide</p>

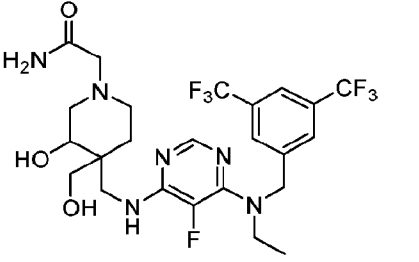
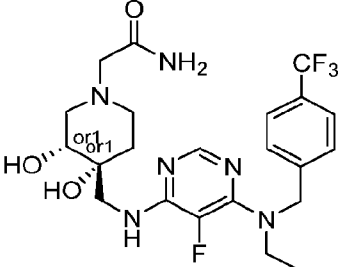
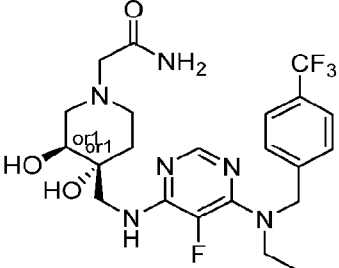
A7-72		A7-72 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(1-methyl-1 <i>H</i> -pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-73		A7-73 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1 <i>H</i> -pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-74		A7-74 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(1-methyl-1 <i>H</i> -pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-75		A7-75 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1 <i>H</i> -pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

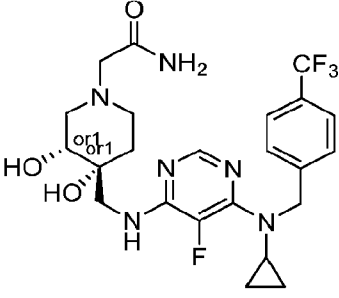
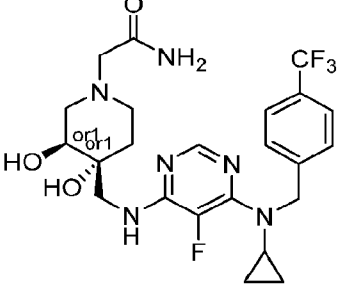
A7-76		A7-76 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(Cyclopropyl(2-fluoro-4-(1 <i>H</i> -pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-77		A7-77 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-(1 <i>H</i> -Pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-78		A7-78 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-79		A7-79 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-80		A7-80 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1 <i>H</i> -1,2,4-triazol-3-yl)piperidin-1-yl)acetamide

A7-81		A7-81 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide
A7-82		A7-82 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide
A7-83		A7-83 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4H-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide
A7-84		A7-84 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-imidazol-2-yl)piperidin-1-yl)acetamide
A7-85		A7-85 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide

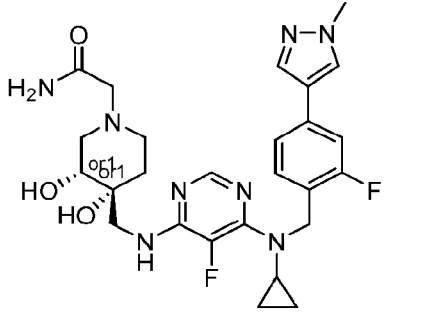
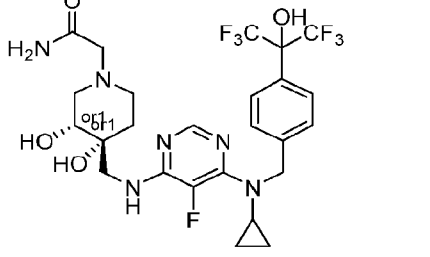
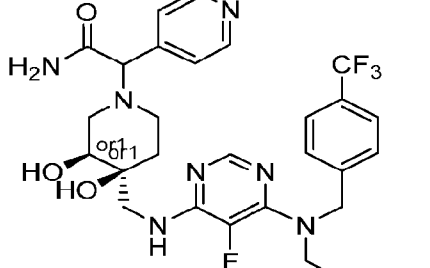
A7-86		A7-86 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-(1 <i>H</i> -pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
A7-87		A7-87 2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide
B4-1-1-1		B4-1-1-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide 1 st eluting isomer
B4-1-1-2		B4-1-1-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide 2 nd eluting isomer
B4-1-2-1		B4-1-2-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide 1 st eluting isomer

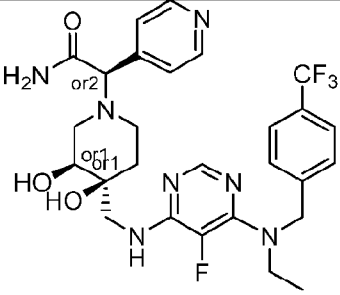

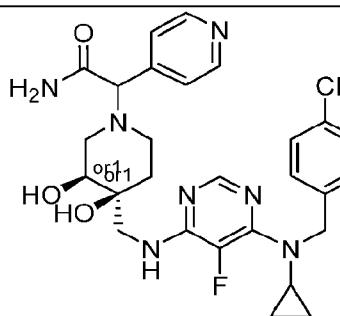
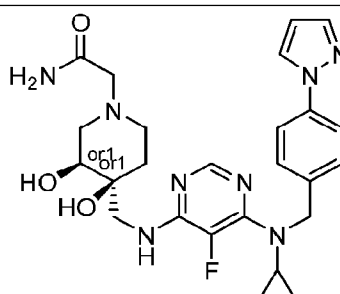
B4-1-2-2		B4-1-2-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide 2 nd eluting isomer
B4-2-1-1		B4-2-1-1 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide 1 st eluting isomer
B4-2-1-2		B4-2-1-2 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide 2 nd eluting isomer
C4-1-1		C4-1-1 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 1 st eluting isomer
C4-1-2		C4-1-2 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 2 nd eluting isomer

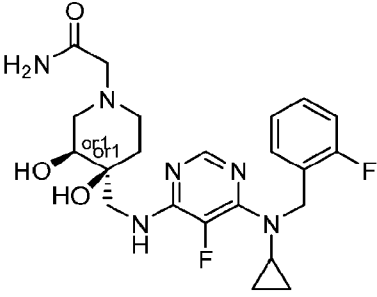
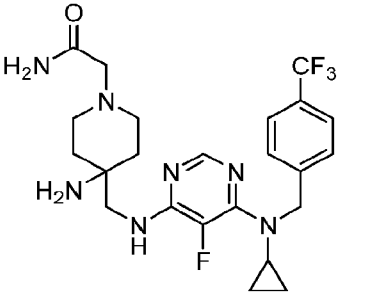
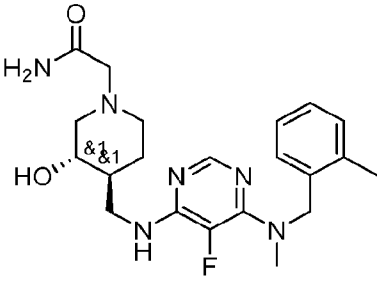
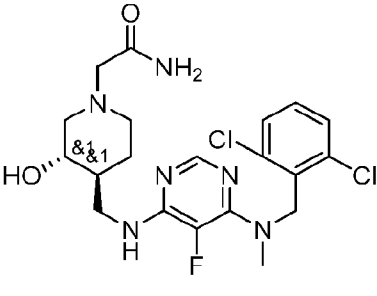
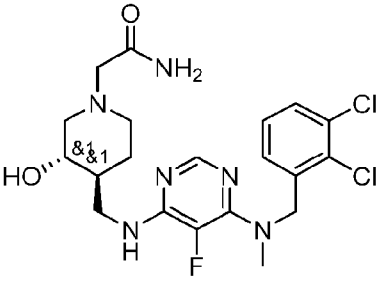
C4-2-1		C4-2-1 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 1 st eluting isomer
C4-2-2		C4-2-2 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 2 nd eluting isomer
D5-1-1-1		D5-1-1-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 1 st eluting isomer
D5-1-1-2		D5-1-1-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 2 nd eluting isomer
D5-1-2-1		D5-1-2-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 1 st eluting isomer

D5-1-2-2		<p>D5-1-2-2 <i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 2nd eluting isomer</p>
D5-2-1-1		<p>D5-2-1-1 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 1st eluting isomer</p>
D5-2-1-2		<p>D5-2-1-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 2nd eluting isomer</p>
D5-2-2-1		<p>D5-2-2-1 <i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide 1st eluting isomer</p>
D5-2-2-2		<p>D5-2-2-2 <i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide 2nd eluting isomer</p>

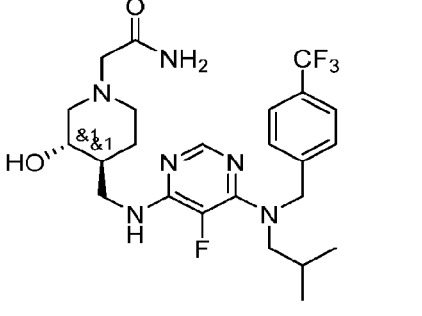
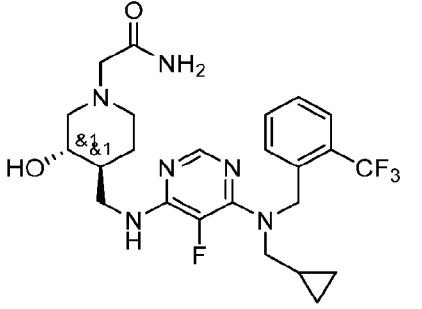
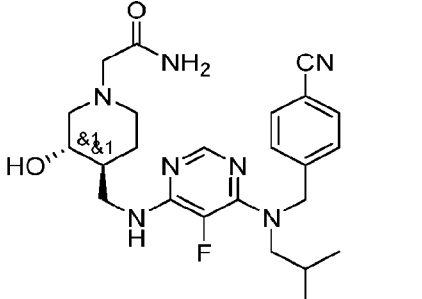
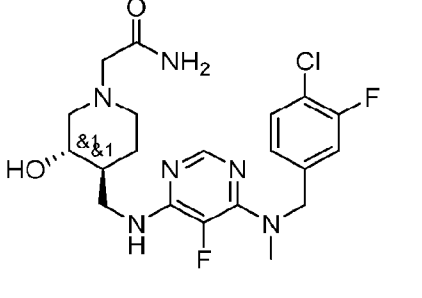
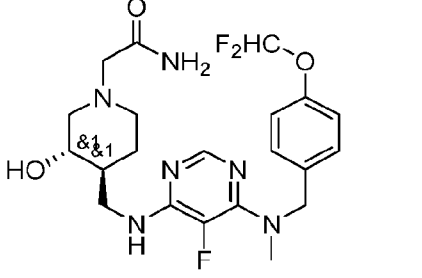
D5-3-1-1		D5-3-1-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 1 st eluting isomer
D5-3-1-2		D5-3-1-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 2 nd eluting isomer
D5-3-2-1		D5-3-2-1 <i>rel</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 1 st eluting isomer
D5-3-2-2		D5-3-2-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>S</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide 2 nd eluting isomer
D5-4'' Enantiomeric ally enriched		D5-4'' <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide Enantiomerically enriched

<p>D5-5-1</p>		<p>D5-5-1 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Major isomer</p>
<p>D5-5-2</p>		<p>D5-5-2 <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Minor isomer</p>
<p>D5-6'' Enantiomeric ally enriched</p>		<p>D5-6'' <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Enantiomerically enriched</p>
<p>D5-7'' Enantiomeric ally enriched</p>		<p>D5-7'' <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide Enantiomerically enriched</p>

<p>D5-7-1</p>		<p>D5-7-1 <i>rel-(R)</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide OR <i>rel-(R)</i>-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide 1st eluting major isomer</p>
<p>D5-7-2</p>		<p>D5-7-2 <i>rel-(R)</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide OR <i>rel-(R)</i>-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide 2nd eluting major isomer</p>
<p>D5-8'' Enantiomeric ally enriched</p>		<p>D5-8'' <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide Enantiomerically enriched</p>
<p>D5-9'' Enantiomeric ally enriched</p>		<p>D5-9'' <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1<i>H</i>-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, Enantiomerically enriched</p>

<p>D5-10'' Enantiomeric ally enriched</p>		<p>D5-10'' <i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, Enantiomerically enriched</p>
<p>E6-1</p>		<p>E6-1 2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>F2-1</p>		<p>F2-1 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide</p>
<p>F2-2</p>		<p>F2-2 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide</p>
<p>F2-3</p>		<p>F2-3 <i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide</p>

F2-4		F2-4 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-5		F2-5 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(methyl(1-(<i>o</i> -tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-6		F2-6 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-7		F2-7 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-8		F2-8 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

F2-9		F2-9 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-10		F2-10 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-11		F2-11 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-12		F2-12 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-13		F2-13 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

F2-14		F2-14 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-15		F2-15 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-16		F2-16 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-17		F2-17 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-18		F2-18 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

F2-19		F2-19 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-20		F2-20 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-21		F2-21 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-22		F2-22 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide
F2-23		F2-23 <i>rac</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

In a related aspect there is provided a prodrug of a compound of Formula (I) as described herein.

The compounds of the present disclosure are active, e.g. having a $ROR\gamma$ Gal4 < 1000 nM, such as < 500 nM, such as < 100 nM, and have a logP substantially lower (e.g. a decreased logP of 1.5, such as 2.0, such as 2.5 log units) than compounds disclosed in WO2016020288 and WO2016020295. In certain embodiments LogD and LogP are substantially lower than compounds in WO2016020288 and WO2016020295. The compounds disclosed herein thus have an improved lipophilicity at similar potency. The compounds disclosed herein may thus be improved modulators of $ROR\gamma$, e.g. having an attractive interaction (e.g. higher binding ability) to the hydrophobic binding sites of the ligand binding domain (LBD) of the $ROR\gamma$ and a low logP and/or low logD.

Pharmaceutical Compositions

In another aspect, the present disclosure relates to a pharmaceutical composition comprising physiologically acceptable surface active agents, carriers, diluents, excipients, smoothing agents, suspension agents, film forming substances, and coating assistants, or a combination thereof; and a compound as disclosed herein, .e.g., a compound of Formulae (I), (II), (III) and (IV) as disclosed herein, or a salt, stereoisomer, or salt of a stereoisomer thereof. The compound of Formulae (I), (II), (III) and (IV) included in the pharmaceutical composition may also be any compound of the preferred embodiments described above. In another aspect, the present disclosure relates to a pharmaceutical composition comprising physiologically acceptable surface active agents, carriers, diluents, excipients, smoothing agents, suspension agents, film forming substances, and coating assistants, or a combination thereof; and a compound of any one of Formulae I, II or III as disclosed herein. Acceptable carriers or diluents, as well as other additives to be combined with one or more compound(s) of Formula (I), (II), (III) and (IV) as disclosed herein to provide a pharmaceutical composition, for therapeutic use are well known in the pharmaceutical art, and are described, for example, in Remington's Pharmaceutical Sciences, 18th Ed., Mack Publishing Co., Easton, PA (1990), which is incorporated herein by reference in its entirety. Preservatives, stabilizers, dyes, sweeteners, fragrances, flavoring agents, taste masking agents, and the like may be provided in the pharmaceutical composition. For example, sodium benzoate, ascorbic acid and esters of p-hydroxybenzoic acid may be added as preservatives. In addition, antioxidants and suspending agents may be used. In various embodiments, alcohols, esters, sulfated aliphatic alcohols, and the like may be used as surface active agents; sucrose, glucose, lactose, starch, crystallized cellulose, mannitol, light anhydrous silicate, magnesium aluminate, magnesium methasilicate

aluminate, synthetic aluminum silicate, calcium carbonate, sodium acid carbonate, calcium hydrogen phosphate, calcium carboxymethyl cellulose, and the like may be used as excipients; magnesium stearate, talc, hardened oil and the like may be used as smoothing agents; coconut oil, olive oil, sesame oil, peanut oil, soya may be used as suspension agents or lubricants; cellulose acetate phthalate as a derivative of a carbohydrate such as cellulose or sugar, or methylacetate-methacrylate copolymer as a derivative of polyvinyl may be used as suspension agents; and plasticizers such as ester phthalates and the like may be used as suspension agents.

The term “pharmaceutical composition” refers to a mixture of a compound disclosed herein with other chemical components, such as diluents or carriers. The pharmaceutical composition facilitates administration of the compound to an organism. Multiple techniques of administering a compound exist in the art including, but not limited to, oral, injection, aerosol, parenteral, and topical administration. Pharmaceutical compositions can also be obtained by reacting compounds with inorganic or organic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, salicylic acid and the like. Similar, pharmaceutical compositions can also be obtained by reacting compounds with inorganic or organic bases, such as ammonia, sodium carbonate, sodium hydrogen carbonate, sodium hydroxide, and the like.

The term “carrier” defines a chemical compound that facilitates the incorporation of a compound into cells or tissues. For example, and without limitation dimethyl sulfoxide (DMSO) is a commonly utilized carrier as it facilitates the uptake of many organic compounds into the cells or tissues of an organism.

The term “diluent” defines chemical compounds diluted in water that will dissolve the compound of interest as well as stabilize the biologically active form of the compound. Salts dissolved in buffered solutions are utilized as diluents in the art. One commonly used buffered solution is phosphate buffered saline because it mimics the salt conditions of human blood. Since buffer salts can control the pH of a solution at low concentrations, a buffered diluent rarely modifies the biological activity of a compound.

The term “physiologically acceptable” defines a carrier or diluent that does not abrogate the biological activity and properties of the compound.

The pharmaceutical compositions described herein can be administered to a human patient *per se*, or in pharmaceutical compositions where they are mixed with other active ingredients, as in combination therapy, or suitable carriers or excipient(s). Techniques for formulation and administration of the compounds of the instant application may be found in

“Remington’s Pharmaceutical Sciences,” Mack Publishing Co., Easton, PA, 18th edition, 1990.

Suitable routes of administration may, for example, include oral, rectal, transmucosal, topical, or intestinal administration; parenteral delivery, including intramuscular, subcutaneous, intravenous, intramedullary injections, as well as intrathecal, direct intraventricular, intraperitoneal, intranasal, or intraocular injections. The compounds can also be administered in sustained or controlled release dosage forms, including depot injections, osmotic pumps, pills, transdermal (including electrotransport) patches, and the like, for prolonged and/or timed, pulsed administration at a predetermined rate.

The pharmaceutical compositions may be manufactured in a manner that is itself known, *e.g.*, by means of conventional mixing, dissolving, granulating, dragee-making, levigating, emulsifying, encapsulating, entrapping or tableting processes.

Pharmaceutical compositions for use as described herein may be formulated in conventional manner using one or more physiologically acceptable carriers comprising excipients and auxiliaries which facilitate processing of the active compounds into preparations which can be used pharmaceutically. Proper formulation is dependent upon the route of administration chosen. Any of the well-known techniques, carriers, and excipients may be used as suitable and as understood in the art; *e.g.*, in Remington’s Pharmaceutical Sciences, above.

Injectables can be prepared in conventional forms, either as liquid solutions or suspensions, solid forms suitable for solution or suspension in liquid prior to injection, or as emulsions. Suitable excipients are, for example, water, saline, dextrose, mannitol, lactose, lecithin, albumin, sodium glutamate, cysteine hydrochloride, and the like. In addition, if desired, the injectable pharmaceutical compositions may contain minor amounts of nontoxic auxiliary substances, such as wetting agents, pH buffering agents, and the like. Physiologically compatible buffers include, but are not limited to, Hanks’s solution, Ringer’s solution, or physiological saline buffer. If desired, absorption enhancing preparations (for example, liposomes), may be utilized.

For transmucosal administration, penetrants appropriate to the barrier to be permeated may be used in the formulation.

Pharmaceutical formulations for parenteral administration, *e.g.*, by bolus injection or continuous infusion, include aqueous solutions of the active compounds in water-soluble form. Additionally, suspensions of the active compounds may be prepared as appropriate oily injection suspensions. Suitable lipophilic solvents or vehicles include fatty oils such as sesame

oil, or other organic oils such as soybean, grapefruit or almond oils, or synthetic fatty acid esters, such as ethyl oleate or triglycerides, or liposomes. Aqueous injection suspensions may contain substances which increase the viscosity of the suspension, such as sodium carboxymethyl cellulose, sorbitol, or dextran. Optionally, the suspension may also contain
5 suitable stabilizers or agents that increase the solubility of the compounds to allow for the preparation of highly concentrated solutions. Formulations for injection may be presented in unit dosage form, *e.g.*, in ampoules or in multi-dose containers, with an added preservative. The compositions may take such forms as suspensions, solutions or emulsions in oily or aqueous vehicles, and may contain formulatory agents such as suspending, stabilizing and/or
10 dispersing agents. Alternatively, the active ingredient may be in powder form for constitution with a suitable vehicle, *e.g.*, sterile pyrogen-free water, before use.

For oral administration, the compounds can be formulated readily by combining the active compounds with pharmaceutically acceptable carriers well known in the art. Such carriers enable the compounds disclosed herein to be formulated as tablets, pills, dragees,
15 capsules, liquids, gels, syrups, slurries, suspensions and the like, for oral ingestion by a patient to be treated. Pharmaceutical preparations for oral use can be obtained by combining the active compounds with solid excipient, optionally grinding a resulting mixture, and processing the mixture of granules, after adding suitable auxiliaries, if desired, to obtain tablets or dragee
20 cores. Suitable excipients are, in particular, fillers such as sugars, including lactose, sucrose, mannitol, or sorbitol; cellulose preparations such as, for example, maize starch, wheat starch, rice starch, potato starch, gelatin, gum tragacanth, methyl cellulose, hydroxypropylmethylcellulose, sodium carboxymethylcellulose, and/or polyvinylpyrrolidone (PVP). If desired, disintegrating agents may be added, such as the cross-linked polyvinyl pyrrolidone, agar, or alginic acid or a salt thereof such as sodium alginate. Dragee cores are provided with suitable
25 coatings. For this purpose, concentrated sugar solutions may be used, which may optionally contain gum arabic, talc, polyvinyl pyrrolidone, carbopol gel, polyethylene glycol, and/or titanium dioxide, lacquer solutions, and suitable organic solvents or solvent mixtures. Dyestuffs or pigments may be added to the tablets or dragee coatings for identification or to characterize different combinations of active compound doses. For this purpose, concentrated
30 sugar solutions may be used, which may optionally contain gum arabic, talc, polyvinyl pyrrolidone, carbopol gel, polyethylene glycol, and/or titanium dioxide, lacquer solutions, and suitable organic solvents or solvent mixtures. Dyestuffs or pigments may be added to the tablets or dragee coatings for identification or to characterize different combinations of active compound doses.

Pharmaceutical preparations which can be used orally include push-fit capsules made of gelatin, as well as soft, sealed capsules made of gelatin and a plasticizer, such as glycerol or sorbitol. The push-fit capsules can contain the active ingredients in admixture with filler such as lactose, binders such as starches, and/or lubricants such as talc or magnesium stearate and, optionally, stabilizers. In soft capsules, the active compounds may be dissolved or suspended in suitable liquids, such as fatty oils, liquid paraffin, or liquid polyethylene glycols. In addition, stabilizers may be added. All formulations for oral administration should be in dosages suitable for such administration.

For buccal administration, the compositions may take the form of tablets or lozenges formulated in conventional manner.

For administration by inhalation, the compounds for use as described herein are conveniently delivered in the form of an aerosol spray presentation from pressurized packs or a nebulizer, with the use of a suitable propellant, *e.g.*, dichlorodifluoromethane, trichlorofluoromethane, dichlorotetrafluoroethane, carbon dioxide or other suitable gas. In the case of a pressurized aerosol the dosage unit may be determined by providing a valve to deliver a metered amount. Capsules and cartridges of, *e.g.*, gelatin for use in an inhaler or insufflator may be formulated containing a powder mix of the compound and a suitable powder base such as lactose or starch.

Further disclosed herein are various pharmaceutical compositions well known in the pharmaceutical art for uses that include intraocular, intranasal, and intraauricular delivery. Suitable penetrants for these uses are generally known in the art. Topical ophthalmic compositions may be formulated as a solution in water buffered at a pH of 5.0 to 8.0. Other ingredients that may be desirable to use in the ophthalmic preparations include preservatives (such as benzalkonium chloride, stabilized oxychloro complex, which is sold as Purite™, or stabilized chlorine dioxide), cosolvents (such as polysorbate 20, 60 and 80, Pluronic® F-68, F-84 and P-103, cyclodextrin, or Solutol) and viscosity-building agents (such as polyvinyl alcohol, polyvinyl pyrrolidone, methyl cellulose, hydroxypropyl methyl cellulose, hydroxyethyl cellulose, carboxymethyl cellulose, or hydroxypropyl cellulose). The compounds disclosed herein may also be used in an intraocular implant as described in U.S. Patent 7,931,909 which is hereby incorporated by reference. Pharmaceutical compositions for intraocular delivery include aqueous ophthalmic solutions of the active compounds in water-soluble form, such as eyedrops, or in gellan gum (Shedden et al., *Clin. Ther.*, 23(3):440-50 (2001)) or hydrogels (Mayer et al., *Ophthalmologica*, 210(2):101-3 (1996)); ophthalmic ointments; ophthalmic suspensions, such as microparticulates, drug-containing small

polymeric particles that are suspended in a liquid carrier medium (Joshi, A., *J. Ocul. Pharmacol.*, 10(1):29-45 (1994)), lipid-soluble formulations (Alm et al., *Prog. Clin. Biol. Res.*, 312:447-58 (1989)), and microspheres (Mordenti, *Toxicol. Sci.*, 52(1):101-6 (1999)); and ocular inserts. All of the above-mentioned references, are incorporated herein by reference in their entireties. Such suitable pharmaceutical formulations for intraocular delivery are most often and preferably formulated to be sterile, isotonic and buffered for stability and comfort. Pharmaceutical compositions for intranasal delivery may also include drops and sprays often prepared to simulate in many respects nasal secretions to ensure maintenance of normal ciliary action. As disclosed in Remington's Pharmaceutical Sciences, 18th Ed., Mack Publishing Co., Easton, PA (1990), which is incorporated herein by reference in its entirety, and well-known to those skilled in the art, suitable formulations are most often and preferably isotonic, slightly buffered to maintain a pH of 5.5 to 6.5, and most often and preferably include antimicrobial preservatives and appropriate drug stabilizers. Pharmaceutical formulations for intraauricular delivery include suspensions and ointments for topical application in the ear. Common solvents for such aural formulations include glycerin and water.

The compounds disclosed herein may also be formulated in rectal compositions such as suppositories or retention enemas, *e.g.*, containing conventional suppository bases such as cocoa butter or other glycerides.

In addition to the formulations described previously, the compounds may also be formulated as a depot preparation. Such long acting formulations may be administered by implantation (for example subcutaneously or intramuscularly) or by intramuscular injection. Thus, for example, the compounds may be formulated with suitable polymeric or hydrophobic materials (for example as an emulsion in an acceptable oil) or ion exchange resins, or as sparingly soluble derivatives, for example, as a sparingly soluble salt.

For hydrophobic compounds, a suitable pharmaceutical carrier may be a cosolvent system comprising benzyl alcohol, a nonpolar surfactant, a water-miscible organic polymer, and an aqueous phase. A common cosolvent system used is the VPD co-solvent system, which is a solution of 3% w/v benzyl alcohol, 8% w/v of the nonpolar surfactant Polysorbate 80™, and 65% w/v polyethylene glycol 300, made up to volume in absolute ethanol. Naturally, the proportions of a co-solvent system may be varied considerably without destroying its solubility and toxicity characteristics. Furthermore, the identity of the co-solvent components may be varied: for example, other low-toxicity nonpolar surfactants may be used instead of POLYSORBATE 80™; the fraction size of polyethylene glycol may be varied; other

biocompatible polymers may replace polyethylene glycol, *e.g.*, polyvinyl pyrrolidone; and other sugars or polysaccharides may substitute for dextrose.

Alternatively, other delivery systems for hydrophobic pharmaceutical compounds may be employed. Liposomes and emulsions are well known examples of delivery vehicles or carriers for hydrophobic drugs. Certain organic solvents such as dimethylsulfoxide also may be employed. Additionally, the compounds may be delivered using a sustained-release system, such as semipermeable matrices of solid hydrophobic polymers containing the therapeutic agent. Various sustained-release materials have been established and are well known by those skilled in the art. Sustained-release capsules may, depending on their chemical nature, release the compounds for a few weeks up to over 100 days. Depending on the chemical nature and the biological stability of the therapeutic reagent, additional strategies for protein stabilization may be employed.

Agents intended to be administered intracellularly may be administered using techniques well known to those of ordinary skill in the art. For example, such agents may be encapsulated into liposomes. All molecules present in an aqueous solution at the time of liposome formation are incorporated into the aqueous interior. The liposomal contents are both protected from the external micro-environment and, because liposomes fuse with cell membranes, are efficiently delivered into the cell cytoplasm. The liposome may be coated with a tissue-specific antibody. The liposomes will be targeted to and taken up selectively by the desired organ. Alternatively, small hydrophobic organic molecules may be directly administered intracellularly.

Additional therapeutic or diagnostic agents may be incorporated into the pharmaceutical compositions. Alternatively or additionally, pharmaceutical compositions may be combined with other compositions that contain other therapeutic or diagnostic agents.

Combinations

The compounds disclosed herein may also be combined with other active compounds in the treatment and/or prevention of inflammatory, metabolic, oncologic and autoimmune diseases or disorders or a symptom thereof.

The combinations provided herein comprise the compounds disclosed herein and one or more additional active substances, such as:

- a) Corticosteroids, such as prednisone, methylprednisolone or beta-methasone;

- b) Immunosuppressants, such as cyclosporine, tacrolimus methotrexate, hydroxyurea, mycophenolate mofetil, mycophenolic acid, sulfasalazine, 6-thioguanine or azathioprine;
- c) Fumaric acid esters, such as dimethyl fumarate;
- 5 d) Dihydroorotate dehydrogenase (DHODH) inhibitors such as leflunomide;
- e) Retinoids, such as acitretin or isotretinoin;
- f) Anti-inflammatories such as apremilast, crisaborole, celecoxib, diclofenac, aceclofenac, aspirin or naproxen;
- g) JAK inhibitors such as tofacitinib, baricitinib, upadacitinib, ruxolitinib or
10 delgocitinib;
- h) Antibiotics such as gentamicin;
- i) Anti-cancer agents such as lenalidomide, pomalidomide, pembrolizumab, nivolumab, daratumumab, bortezomib, carfilzomib, ixazomib, bendamustine or
ventoclast;
- 15 j) T-cell blockers such as alefacept or efalizumab;
- k) Tumor necrosis factor-alpha (TNF-alpha) blockers such as etanercept, adalimumab, infliximab, golimumab, certolizumab pegol;
- l) interleukin 12/23 blockers such as ustekinumab;
- m) IL-23 blockers such as risankizumab, guselkumab or tildrakizumab;
- 20 n) anti-IL4/IL13 antagonist such as dupilumab, lebrikizumab or tralokinumab;
- o) IL-1 β blockers such as canakinumab;
- p) IL-alpha blockers such as bermekimab;
- q) CD6 blockers such as itolizumab;
- r) IL-36R blockers such as BI-655130 or bimekizumab;
- 25 s) IL-6 antagonist such as tocilizumab;
- t) Calcineurin inhibitors such as pimecrolimus, tacrolimus or cyclosporine;
- u) Phototherapy agents commonly employed in phototherapy such as psoralen, methoxypsoralen or 5-methoxypsoralen + UVA (PUVA) or treatment with UVB (with or without tar);
- 30 v) Fixed combinations of corticosteroids and vitamin D derivatives;
- w) Fixed combinations of corticosteroids and retinoids;
- x) Corticosteroid tapes; and

y) one or more agents selected from the group consisting of BMS986165, PF-06700841, PF-06826647, piclidenoson, tepilamide fumarate, LYC-30937, LEO-32731, BI-730357, PRCL-02, LNP-1955, GSK-2982772, CBP-307, KD-025, MP-1032, petesicatib, JTE-451, Hemay-005, SM-04755, EDP-1815, BI-730460, SFA-002 ER, JNJ-3534, SAR-441169, BOS-172767, SCD-044, ABBV-157, BAY-1834845, AUR-101, R-835, PBF-1650, RTA-1701, AZD-0284, mirikizumab, CD20 antagonist, salicylic acid, coal tar, Mical-1, DUR-928, AM-001, BMX-010, TA-102, SNA-125, brepocitinib tosylate, pegcantratinib, ESR-114, NP-000888, SM-04755, BOS-475, SB-414, LEO-134310, CBS-3595, PF-06763809, XCUR-17 and BTX-1308.

10 The active compounds in the combination, i.e. the compounds disclosed herein, and the other optional active compounds may be administered together in the same pharmaceutical composition or in different compositions intended for separate, simultaneous, concomitant or sequential administration by the same or a different route.

Uses

15 The compounds or pharmaceutical compositions disclosed herein as described above may be used to modulate the activity of a retinoic acid receptor-related orphan receptor (ROR), such as a ROR α , ROR β and/or ROR γ receptor. Modulators of ROR γ have been reviewed by B. Fauber and S. Magnuson in *J. Med. Chem.*, February 6, 2014, and Pandya et al in *J. Med. Chem.* 2018, 61, 24, 10976-10995 which hereby are incorporated by reference in its entirety.

20 Examples of ROR γ receptors are ROR γ 1 and ROR γ t receptors. The compounds or pharmaceutical compositions as described above may also display selective modulation of a particular ROR receptor relative to a different ROR receptor. For example, according to some embodiments disclosed herein some compounds or pharmaceutical compositions modulate the activity of an ROR γ receptor to a larger extent than they modulate the activity of ROR α and/or

25 ROR β receptors.

The compounds or pharmaceutical compositions disclosed herein may also be used to modulate the activity of cells producing IL-17A in a ROR γ t dependent manner, for example, $\gamma\delta$ T cells, Th17 cells, Tc17 cells and ILC3 cells. The compounds or pharmaceutical compositions disclosed herein may also be used to inhibit ROR γ t function upon IL-23

30 stimulation, which in turn negatively impacts on the differentiation and expansion of pathogenic Tc17 and Th17.

Publications providing useful background information are *Arthritis & Rheumatism*, 2014, 66, 579-588; *Curr Top Microbial Immun*, 2014, 378, 171-182; *Drug Disc. Today*, 2014,

May; Nature Rev. Drug Disc. 2012, 11, 763-776, and Nature Rev. Drug Disc., 2014, 13, 197-216, all of which are hereby incorporated by reference in their entirety.

The compounds or pharmaceutical compositions as described herein and above may also be used in therapy or may be used to treat inflammatory, metabolic, oncologic and autoimmune diseases or disorders or a symptom thereof. Examples of such diseases or disorders are inflammatory, metabolic, oncologic and autoimmune diseases or disorders mediated or affected by IL-17A and/or ROR γ . The role of ROR γ in the pathogenesis of autoimmune or inflammatory diseases has been disclosed in Immunity 2007, 26(5), 643-654; Nat. Rev. Immunol. 2006, 6, 205-217; J. Immunol. 2009, 183, 7169-7177; Brain Pathol. 2004, 14, 164-174; Brain 2007, 130, 1089-1104; and Nat Rev. Immunol. 2008, 8, 183-192 all of which are hereby incorporated by reference in their entirety.

More specific examples of diseases or disorders, or a symptom thereof include asthma, acne, chronic obstructive pulmonary disease (COPD), bronchitis, atherosclerosis, helicobacter pylori infection, allergic diseases including allergic rhinitis, allergic conjunctivitis and uveitis, sprue and food allergy, atopic dermatitis, lichen planus, cystic fibrosis, lung allograft rejection, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, ichthyoses, bullous diseases, hidradenitis suppurativa, steatosis, steatohepatitis, non-alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH), lupus erythematosus, Hashimoto's disease, pancreatitis, autoimmune diabetes, autoimmune ocular disease, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD), inflammatory bowel syndrome (IBS), Sjogren's syndrome, optic neuritis, type I diabetes, neuromyelitis optica, Myasthenia Gravis, Guillain-Barre syndrome, Graves' disease, scleritis, obesity, obesity-induced insulin resistance, type II diabetes and cancer.

More preferably, the diseases or disorders, or a symptom thereof include acne, atopic dermatitis, lichen planus, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, ichthyoses, bullous diseases, hidradenitis suppurativa, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD) and lupus erythematosus.

An example of a symptom is a physical or mental feature which is regarded as indicating a condition of disease, particularly such a feature that is apparent to the patient, e.g. treating or preventing a symptom is not considered disease-modifying but preventing or alleviating one or more symptoms commonly experience in connection with such a disease.

More specifically, compounds or pharmaceutical compositions having an antagonistic or inverse agonistic effect on ROR γ may be used to reduce levels of IL-17A and/or other gene products, such as interleukins, and cytokines, regulated ROR γ . This may for example be in subjects suffering from for example, asthma, acne, chronic obstructive pulmonary disease (COPD), bronchitis, atherosclerosis, helicobacter pylori infection, allergic diseases including allergic rhinitis, allergic conjunctivitis and uveitis, sprue and food allergy, atopic dermatitis, lichen planus, cystic fibrosis, lung allograft rejection, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ichthyoses, bullous diseases, hidradenitis suppurativa, ankylosing spondylitis, psoriasis, psoriatic arthritis, steatosis, steatohepatitis, non-alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH), lupus erythematosus, Hashimoto's disease, pancreatitis, autoimmune diabetes, autoimmune ocular disease, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD), inflammatory bowel syndrome (IBS), Sjogren's syndrome, optic neuritis, type I diabetes, neuromyelitis optica, Myasthenia Gravis, Guillain-Barre syndrome, Graves' disease, scleritis, obesity, obesity-induced insulin resistance and type II diabetes.

Conversely, compounds or pharmaceutical compositions having an agonistic effect on ROR γ may be used to increase IL-17A levels. Increasing IL-17A levels may be particularly useful in immune compromised conditions or boosting the immune system response for example during infections and in cancer.

The compounds described herein may be used in the manufacture of a medicament for the treatment and/or prevention of inflammatory, metabolic, oncologic and autoimmune diseases or disorders or a symptom thereof.

Methods of Administration

The compounds or pharmaceutical compositions may be administered to the patient by any suitable means. Non-limiting examples of methods of administration include, among others, (a) administration through oral pathways, which administration includes administration in capsule, tablet, granule, spray, syrup, or other such forms; (b) administration through non-oral pathways such as rectal, vaginal, intraurethral, intraocular, intranasal, or intraauricular, which administration includes administration as an aqueous suspension, an oily preparation or the like or as a drip, spray, suppository, salve, ointment or the like; (c) administration via injection, subcutaneously, intraperitoneally, intravenously, intramuscularly, intradermally, intraorbitally, intracapsularly, intraspinally, intrasternally, or the like, including infusion pump delivery; (d) administration locally such as by injection directly in the renal or cardiac area,

e.g., by depot implantation, by intratumoral injection, or by intra-lymph node injection; (e) administration topically; as well as as well as (f) administration to cells *ex vivo* followed by insertion of said cells into the patient; as deemed appropriate by those of skill in the art for bringing the compound disclosed herein into contact with living tissue.

5 Pharmaceutical compositions suitable for administration include compositions where the active ingredients are contained in an amount effective to achieve its intended purpose. The therapeutically effective amount of the compounds disclosed herein required as a dose will depend on the route of administration, the type of animal, including mammal, e.g. human, being treated, and the physical characteristics of the specific animal under consideration. The dose
10 can be tailored to achieve a desired effect, but will depend on such factors as weight, diet, concurrent medication and other factors which those skilled in the medical arts will recognize. More specifically, a therapeutically effective amount means an amount of compound effective to prevent, alleviate or ameliorate symptoms of disease or prolong the survival of the subject being treated. Determination of a therapeutically effective amount is well within the capability
15 of those skilled in the art, especially in light of the detailed disclosure provided herein.

As will be readily apparent to one skilled in the art, the useful *in vivo* dosage to be administered and the particular mode of administration will vary depending upon the age, weight and mammalian species treated, the particular compounds employed, and the specific use for which these compounds are employed. The determination of effective dosage levels,
20 that is the dosage levels necessary to achieve the desired result, can be accomplished by one skilled in the art using routine pharmacological methods. Typically, human clinical applications of products are commenced at lower dosage levels, with dosage level being increased until the desired effect is achieved. Alternatively, acceptable *in vitro* studies can be used to establish useful doses and routes of administration of the compositions identified by
25 the present methods using established pharmacological methods.

In non-human animal studies, applications of potential products are commenced at higher dosage levels, with dosage being decreased until the desired effect is no longer achieved or adverse side effects disappear. The dosage may range broadly, depending upon the desired effects and the therapeutic indication.

30 Typically, dosages may be between about 10 microgram/kg and 100 mg/kg body weight, preferably between about 100 microgram/kg and 10 mg/kg body weight. Alternatively dosages may be based and calculated upon the surface area of the patient, as understood by those of skill in the art.

The exact formulation, route of administration and dosage for the pharmaceutical compositions disclosed herein can be chosen by the individual physician in view of the patient's condition. (See *e.g.*, Fingl *et al.* 1975, in "The Pharmacological Basis of Therapeutics", which is hereby incorporated herein by reference in its entirety, with particular reference to Ch. 1, p. 1). Typically, the dose range of the composition administered to the patient can be from about 0.5 to 1000 mg/kg of the patient's body weight. The dosage may be a single one or a series of two or more given in the course of one or more days, as is needed by the patient. In instances where human dosages for compounds have been established for at least some condition, those same dosages may be used, or dosages that are between about 0.1% and 500%, more preferably between about 25% and 250% of the established human dosage. Where no human dosage is established, as will be the case for newly-discovered pharmaceutical compounds, a suitable human dosage can be inferred from ED₅₀ or ID₅₀ values, or other appropriate values derived from *in vitro* or *in vivo* studies, as qualified by toxicity studies and efficacy studies in animals.

It should be noted that the attending physician would know how to and when to terminate, interrupt, or adjust administration due to toxicity or organ dysfunctions. Conversely, the attending physician would also know to adjust treatment to higher levels if the clinical response were not adequate (precluding toxicity). The magnitude of an administered dose in the management of the disorder of interest will vary with the severity of the condition to be treated and to the route of administration. The severity of the condition may, for example, be evaluated, in part, by standard prognostic evaluation methods. Further, the dose and perhaps the dose frequency will also vary according to the age, body weight, and response of the individual patient. A program comparable to that discussed above may be used in veterinary medicine.

Although the exact dosage will be determined on a drug-by-drug basis, in most cases, some generalizations regarding the dosage can be made. The daily dosage regimen for an adult human patient may be, for example, an oral dose of between 0.1 mg and 2000 mg of each active ingredient, preferably between 1 mg and 500 mg, *e.g.* 5 to 200 mg. An ocular eye drop may range in concentration between 0.005 and 5 percent. In one embodiment, an eye drop may range between 0.01 and 1 percent, or between 0.01 and 0.3 percent in another embodiment. In other embodiments, an intravenous, subcutaneous, or intramuscular dose of each active ingredient of between 0.01 mg and 100 mg, preferably between 0.1 mg and 60 mg, *e.g.* 1 to 40 mg is used. In cases of administration of a pharmaceutically acceptable salt, dosages may be calculated as the free base. In some embodiments, the composition is administered 1 to 4 times

per day. Alternatively the compositions disclosed herein may be administered by continuous intravenous infusion, preferably at a dose of each active ingredient up to 1000 mg per day. As will be understood by those of skill in the art, in certain situations it may be necessary to administer the compounds disclosed herein in amounts that exceed, or even far exceed, the
5 above-stated, preferred dosage range or frequency in order to effectively and aggressively treat particularly aggressive diseases or infections. In some embodiments, the compounds will be administered for a period of continuous therapy, for example for a week or more, or for months or years.

Dosage amount and interval may be adjusted individually to provide plasma or tissue
10 levels of the active moiety which are sufficient to maintain the modulating effects, or minimal effective concentration (MEC). The MEC will vary for each compound but can be estimated from *in vitro* data. Dosages necessary to achieve the MEC will depend on individual characteristics and route of administration. However, HPLC assays or bioassays can be used to determine plasma concentrations.

15 Dosage intervals can also be determined using MEC value. Compositions should be administered using a regimen which maintains plasma levels above the MEC for 10-90% of the time, preferably between 30-90% and most preferably between 50-90%.

In cases of local or *ex vivo* administration or selective uptake, the effective local concentration of the drug may not be related to plasma concentration.

20 The amount of composition administered may be dependent on the subject being treated, on the subject's weight, the severity of the affliction, the manner of administration and the judgment of the prescribing physician.

Compounds disclosed herein can be evaluated for efficacy and toxicity using known methods. For example, the toxicology of a particular compound, or of a subset of the
25 compounds, sharing certain chemical moieties, may be established by determining *in vitro* toxicity towards a cell line, such as a mammalian, and preferably human, cell line. The results of such studies are often predictive of toxicity in animals, such as mammals, or more specifically, humans. Alternatively, the toxicity of particular compounds in an animal model, such as mice, rats, rabbits, or monkeys, may be determined using known methods. The efficacy
30 of a particular compound may be established using several recognized methods, such as *in vitro* methods, animal models, or human clinical trials. Recognized *in vitro* models exist for nearly every class of condition, including but not limited to cancer, cardiovascular disease, and various immune dysfunction. Similarly, acceptable animal models may be used to establish efficacy of chemicals to treat such conditions. When selecting a model to determine efficacy,

the skilled artisan can be guided by the state of the art to choose an appropriate model, dose, and route of administration, and regime. Of course, human clinical trials can also be used to determine the efficacy of a compound in humans.

The compositions may, if desired, be presented in a pack or dispenser device which may contain one or more unit dosage forms containing the active ingredient. The pack may for example comprise metal or plastic foil, such as a blister pack. The pack or dispenser device may be accompanied by instructions for administration. The pack or dispenser may also be accompanied with a notice associated with the container in form prescribed by a governmental agency regulating the manufacture, use, or sale of pharmaceuticals, which notice is reflective of approval by the agency of the form of the drug for human or veterinary administration. Such notice, for example, may be the labeling approved by the U.S. Food and Drug Administration for prescription drugs, or the approved product insert. Compositions comprising a compound disclosed herein formulated in a compatible pharmaceutical carrier may also be prepared, placed in an appropriate container, and labeled for treatment of an indicated condition.

General remarks

As described above with reference to specific illustrative embodiments, it is not intended to be limited to the specific form set forth herein. Any combination of the above mentioned embodiments should be appreciated as being within the scope of the disclosure. Rather, the disclosure is limited only by the accompanying claims and other embodiments than the specific above are equally possible within the scope of these appended claims.

In the claims, the term “comprises/comprising” does not exclude the presence of other species or steps. Additionally, although individual features may be included in different claims, these may possibly advantageously be combined, and the inclusion in different claims does not imply that a combination of features is not feasible and/or advantageous. In addition, singular references do not exclude a plurality. The terms “a”, “an”, “first”, “second” etc. do not preclude a plurality. The phrases “at least one” or “one or more” refer to 1 or a number greater than 1, such as to 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10.

Whenever a chemical name or structure has been given it has been generated by conventional means or by means of a suitable software. Names for the compounds were generated with ChemDraw Professional, version 17.1.0.105 (19).

In the present disclosure, in the drawings of the structures, the labels “or1”, “or2”, “&1”, or “&2” at each stereogenic center specify the “stereochemical group” to which the center belongs.

In the case of the “or” groups, the meaning is a structure that represents one stereoisomer that has either the “stereochemical group” as drawn ((R, S), for instance) or the stereoisomer in which the stereogenic centers of the group have the opposite configuration (S, R).

5 In the case of the “&” groups, & in combination with the number given (e.g. &1) indicate a mixture of the marked asymmetrically substituted atoms. When the numbering pools several asymmetrically substituted atoms together this displays their configuration relative to each other. If they are displayed as (R,S) the opposite configuration (S,R) is also present for the specified pooled group.

10 In the present disclosure, the symbol ” specifies enantiomerically enriched. Any compound or intermediate synthesized in a enantiomerically enriched manner and where no chiral separation has been performed is identified with ”.

Experimental

The following examples are mere examples and should by no mean be interpreted to limit the scope of the disclosure. Rather, the disclosure is limited only by the accompanying claims.

General Chemical Procedures

General

Unless otherwise stated, starting materials were obtained from commercial suppliers, such as (but not limited to); AbBchem, ABCR, Alfa Aesar, Anaspec, Anichem, Apollo Scientific, ASDI-Inter, Asiba Pharmatech, Astatech, ArkPharm, Bachem, Chem-Impex, ChemCollect, Chembridge, Combi-Blocks, Enamine, FCH, Fluka, Fluorochem, Frontier Scientific, HDH Pharma, InFarmatik, InterBioScreen, Life Chemicals, Manchester organics, Matrix, MercaChem, NetChem, Oakwood Chemical, PepTech, Pharmcore, PrincetonBio, Sigma-Aldrich, TRC, Tyger Scientific and Ukrorgsyn, and were used without further purification. Solvents such as DMF, DMSO and DCM, etc were used directly or dried over molecular sieves.

Equipment

NMR

30 ¹H NMR spectra were recorded on the following; Bruker Avance 300 spectrometer (at 300 MHz), Bruker Avance III 400 spectrometer (at 400 MHz), Bruker Avance Neo (400 MHz), Bruker Avance III 600 (at 600 MHz), Varian VNMR spectrometer (at 400 MHz) using CD₃OD, CDCl₃ or DMSO-*d*₆ solvents. Chemical shifts are reported in ppm (δ) using residual

solvent as an internal standard; CDCl_3 : 7.26 ppm; CD_3OD : 3.31 ppm; $\text{DMSO}-d_6$: 2.50 ppm. Coupling constants (J) are given in Hz.

Analytical U/HPLC

The following equipment was used for analytical U/HPLC:

5 Waters Acquity system equipped with an Acquity BEH C18 (1.7 μm , 2.1 x 50 mm) with a linear gradient of a binary solvent system using a flow rate of 0.5 mL/min and DAD at ambient temperature, combined with MS detection SQD I.

Agilent Infinity I/II -TOF6230B /CLND Antek 8060 equipped with Acquity BEH C18 (1.7 μm , 2.1 x 50 mm) with a linear gradient of a binary solvent system using a flow rate of
10 0.75 mL/min combined with DAD.

Agilent 1200series-1260 Infinity equipped with a Waters XBridge C18 (5 μm , 4.6 x 50 mm) with a linear gradient of a binary solvent system using a flow rate of 1.5 mL/min and UV detection at 214 nm or 254 nm, combined with MS detection (Agilent).

Shimadzu Nexera equipped with a Waters XBridge C18 (5 μm , 4.6 x 50 mm) with a
15 linear gradient of a binary solvent system using a flow rate of 1.5 mL/min and UV detection at 214 nm or 254 nm, combined with MS detection (Shimadzu).

Waters Acquity system equipped with an Acquity BEH C18 (1.7 μm , 2.1 x 50 mm) with a linear gradient of a binary solvent system using a flow rate of 0.65 mL/min and DAD at ambient temperature, combined with MS detection Waters spectrometer.

20 Preparative HPLC

The following equipment was used for Prep-HPLC:

Waters Acquity system equipped with a Supelco DISCOVERY C18 (5 μm , 25 cm x 21.2 mm), with a linear gradient of a binary solvent system using a flow rate of 45 mL/min and UV detection at 254 nm, combined with MS detection on a Waters Micromass ZQ Quadrupole
25 MS.

Shimadzu Nexera X2 equipped with a Merck Chromolith SpeedROD RP-18E (5 μm , 10 x 100 mm) with a linear gradient of a binary solvent system using a flow rate between 4 and 7 mL/min and UV detection at 254 nm, combined with MS detecting on a Shimadzu LCMS-2020.

30 Waters Masslynx system equipped with a Waters XBridge C18 column (5 μm , 19 x 150 mm) with a linear gradient of a binary solvent system using a flow rate of 15 mL/min and UV detection at 214 nm or 254 nm, combined with MS detection (Waters).

Gilson GX-281 TRILUTION equipped with a Phenomenex Gemini NX-C18 column (5 μ m, 21.2 x 150 mm) with a linear gradient of a binary solvent system using a flow rate of 15 mL/min and UV detection at 214 nm or 254 nm, combined with MS detection (Waters).

The following linear gradients have been used:

- 5 HCO₂H - (H₂O/CH₃CN/HCO₂H (100/0/0.1% to 0/100/0.1%))
NH₄OAc - (H₂O/CH₃CN/NH₄OAc (100/0/0.02% to 0/100/0.02%))
TFA - (H₂O/CH₃CN/TFA (100/0/0.1% to 0/100/0.1%))
NH₄HCO₃ - (H₂O/CH₃CN/NH₄HCO₃ (100/0/0.1% to 0/100/0.1%))
NH₄OH - (H₂O/CH₃CN/NH₄OH (100/0/0.1% to 0/100/0.1%))
10 HCO₂ NH₄ - (H₂O/50%MeOH+50%CH₃CN/HCO₂H/NH₃ (95/5/0.05%/0.01% to 5/95/0.05%/0.01%))

Flash CC was most often performed on a Isolera® automated systems. Flash CC and Prep TLC were performed employing SiO₂, if not otherwise mentioned. However, C18 columns have also been employed (using a gradient of water-acetonitrile/MeOH (1:1), with or without 0.1% v/v ammonium formate in both phases, from 0% to 100% acetonitrile/MeOH (1:1)).

Analytical Chiral Chromatography

Was performed on a Waters UPC2 system coupled to a DAD detector and a Waters QDa MS detector, equipped with a chiral column with gradient elution using a flow rate of 1 mL/min. The available chiral columns were CHIRALPAK (3 μ m, 4.6 x 100 mm) IA, IB, IC and ID and Trefoil AMY1 (2.5 μ m, 2.1 x 150 mm).

The following linear gradients have been used for analytical UPC2:

- CO₂/MeOH/DEA (99/1/0.2% to 60/40/0.2%)
CO₂/EtOH/DEA (99/1/0.2% to 60/40/0.2%)
25 CO₂/IPA/DEA (99/1/0.2% to 60/40/0.2%)

Preparative Chiral Chromatography

Before chiral separation, compounds were purified by the standards methods previously described using the appropriate solvents.

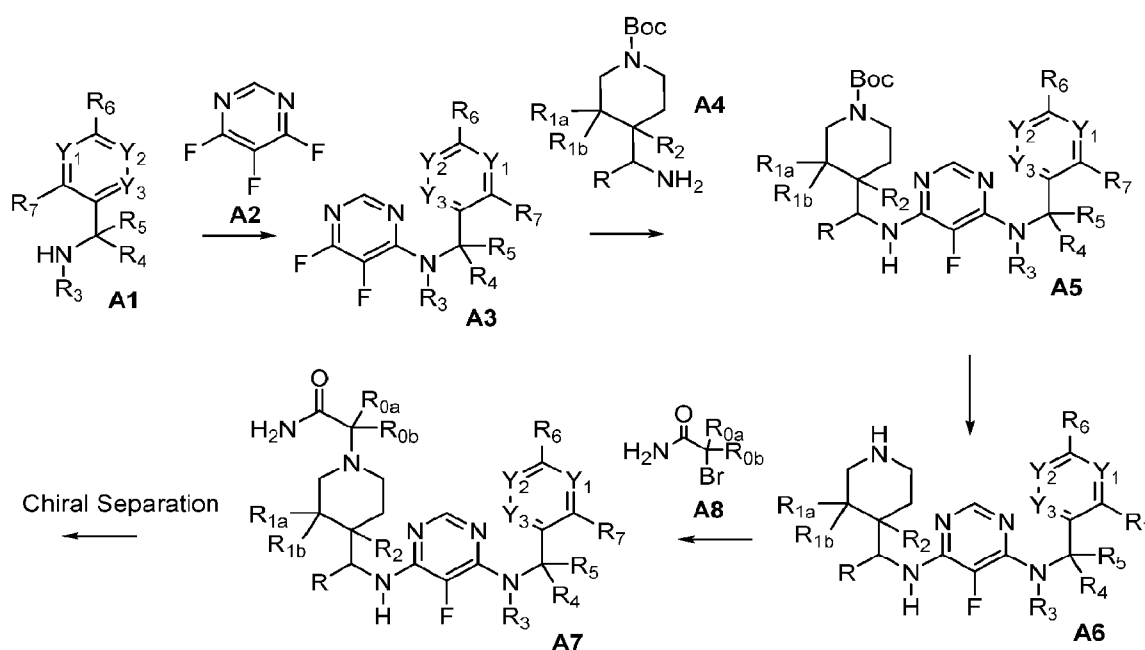
Preparative chiral separations were performed either on a Gilson (306, GX-281 trilution, 156-UV/Vis, Waters 3100 MSD), or a Waters SFC-80, equipped with a chiral column with the solvents specified using flow rates between 10-50 mL/min (only 50 g/min for SCF) and detection at either 214 or 230 nm; The available chiral columns were Reprosil AMS (5 μ m, 20mm x 250mm), Lux C2 (5 μ m, 21.2mm x 250mm), Lux C4 (5 μ m, 21.2mm x 250mm), Chiralpak® column IA, IB, IC, ID, IF or IG (5 μ m, 20mm x 250mm) or Chiralcel® OJ-H or OD-

H. Exact column and elution conditions used for each compound are described in the experimental part.

Synthetic Methods

The compounds disclosed herein may be synthesized by one of the following general methods: General Method A, General Method 2A, General Method 3A, General Method 4A, General Method 5A, General Method 6A, General Method B, General Method C, General Method 1D, General Method 2D, General Method 2D', General Method 3D, General Method E and General Method F.

General Method A - Synthesis from Boc-protected piperidines.



10

The secondary amine **A1** was reacted with **A2** (at ambient temperature or slightly above, 30 °C) together with a suitable base (such as; DIEA, TEA or K₂CO₃) at rt. After the reaction was deemed complete the intermediate **A3** was worked up and purified by chromatography (Flash CC or HPLC) or used as the crude. Intermediate **A3**, a base (such as; DIEA, TEA or Cs₂CO₃) and the primary amine **A4** were thereafter dissolved in a solvent (such as DMSO or DMSO-H₂O, H₂O, H₂O-EtOH mixtures) and the temperature was increased to 70 – 100 °C on, or until the reaction was considered complete. Workup and purification then gave Intermediate **A5**, which was subjected to de-protection. The intermediate formed following boc-deprotection **A6** was most often used directly, as the corresponding piperidinium salt (HCl or TFA), in the alkylation with 2-bromoacetamides **A8** and a suitable base, such as DIEA,

15

20

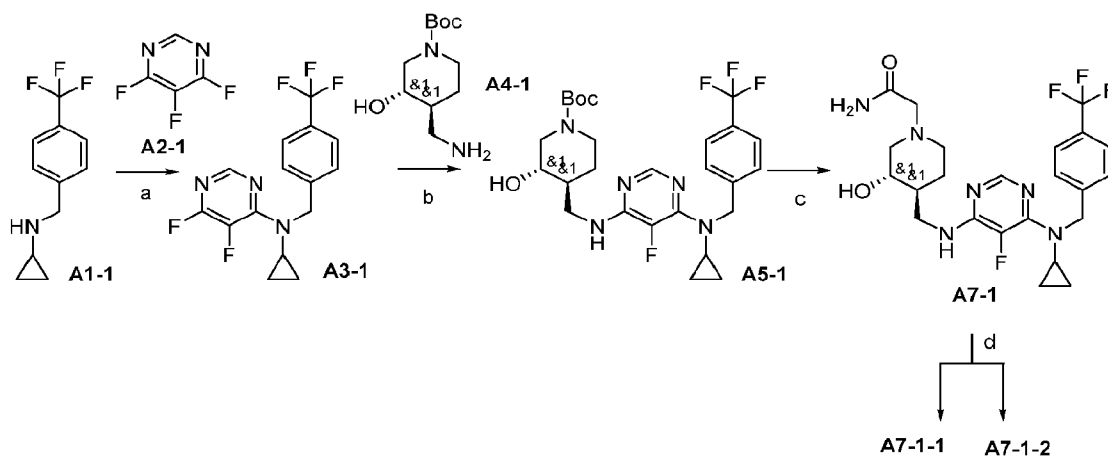
Na₂CO₃ or K₂CO₃ at rt or heating up to 100°C. The products A7 were first purified by standard chromatographic methods.

In the cases when the A7 products were mixture of stereoisomers they were often (but not always) subjected to chiral resolution (chromatography) to obtain single stereoisomers as end products.

All the compounds in **Table A** were synthesized employing this methodology, in ranges from 2 μmol up to ca 1 mol scale.

Example A7-1

10 **Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide A7-1 and chiral separation to A7-1-1 and A7-1-2**

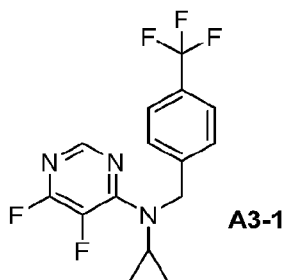


15 a) DIEA, DMSO, rt, on. b) DIEA, DMSO, 80 °C, on. c) i) HCl, dioxane, 60 min. ii) DIEA, 2-bromoacetamide. d) Chiral chromatography.

Scheme A7-1

20 **Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, A7-1**

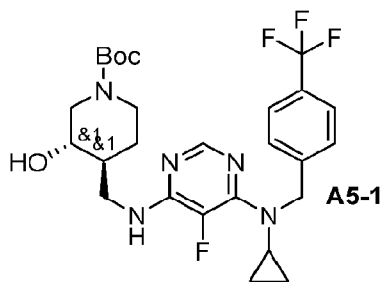
***N*-Cyclopropyl-5,6-difluoro-*N*-(4-(trifluoromethyl)benzyl)pyrimidin-4-amine, A3-1**



To dry DMSO (7 mL) **A2-1** (375 mg, 2.8 mmol), **A1-1** (737 mg, 3.1 mmol) and DIEA (1.5 mL) were added and the reaction was stirred on. The reaction mixture was then poured onto aq LiCl (40 mL, 5%) extracted three times with EA. The combined EA phase was then washed twice with aq LiCl (5%), once with brine, and subsequently dried (Na₂SO₄). Filtration, followed by concentration under reduced pressure gave a crude that was thereafter purified by Flash CC (EA:Hept) to yield **A3-1** (832 mg).

LCMS: MS Calcd.: 329; MS Found: 330 ([M+1]⁺).

10 **rac-tert-Butyl (3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidine-1-carboxylate, A5-1**

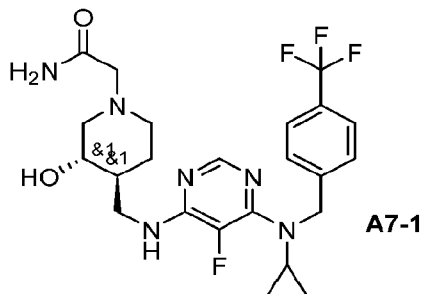


Compound **A3-1** (828 mg, 2.5 mmol) was dissolved in dry DMSO (8mL) followed by **A4-1** (750 mg, 3.26 mmol) and DIEA (2.2 mL). The reaction mixture was heated to 80 °C on. The reaction mixture was cooled and then poured onto aq LiCl (40 mL, 5%) and extracted three times with EA. The combined EA phase was then washed twice with aq LiCl (5%), brine and then dried (Na₂SO₄). Filtration followed by concentration under reduced pressure gave a crude that was then purified by Flash CC (EA:Hept) to yield **A5-1** (1.28 g).

LCMS: MS Calcd.: 539; MS Found: 540 ([M+1]⁺).

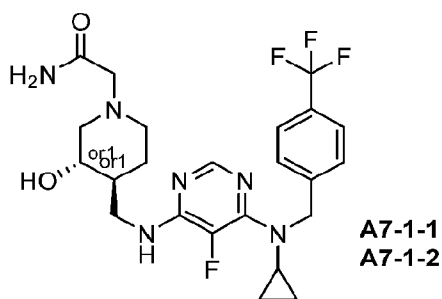
20

rac-2-(((3R,4R)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, A7-1



Compound **A5-1** (1.27 g, 2.35 mmol) was added to HCl in dioxane (2M, 10 mL), stirred at ambient temperature for 60 min and thereafter concentrated under reduced pressure. The resulting residue was dissolved in a solution of DIEA (3.3 mL) in DCM (30 mL) on an ice bath. Thereafter, 2-bromoacetamide (0.39 g, 2.8 mmol) was added and reaction was allowed to reach rt and was then stirred on. The reaction was concentrated under reduced pressure. Thereafter, aq NaHCO₃ (sat) was added to the resulting slurry the resulting mixture was then extracted three times with EA. The combined EA phase were washed with brine, dried (Na₂SO₄), filtered, concentrated and purified, Flash CC (MeOH:DCM), to yield **A7-1** (1.0 g, 2.0 mmol, 71% over 4 steps).

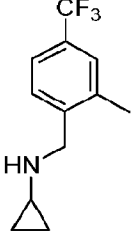
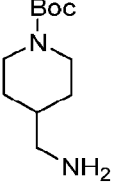
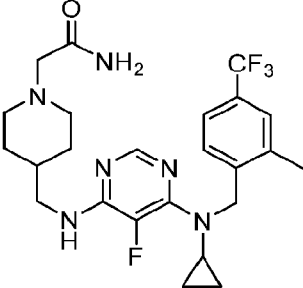
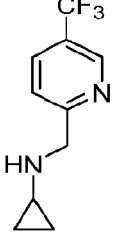
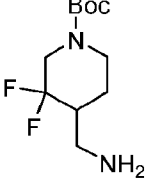
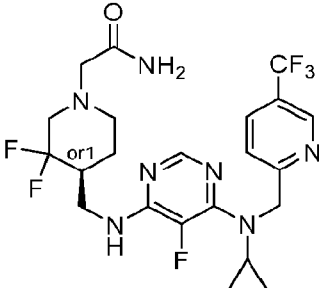
rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, **A7-1-1** and **A7-1-2**

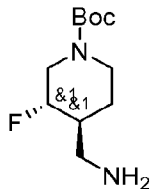
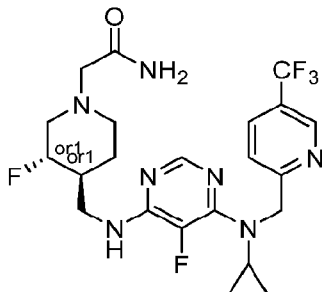
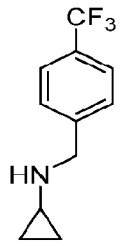
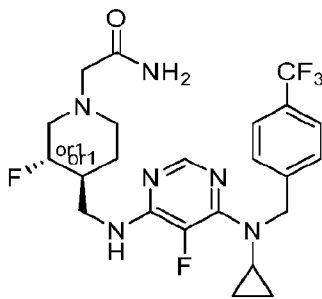


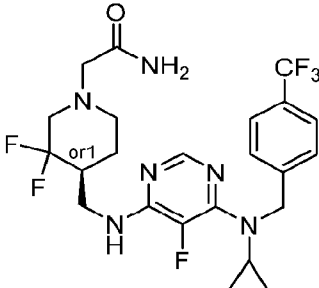
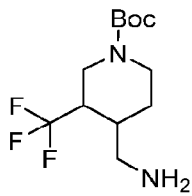
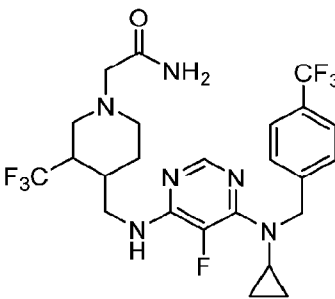
Compound **A7-1** (0.95 g) was then subjected to chiral chromatography, to yield the optically pure compounds: **A7-1-1** (380 mg) as the 1st eluting isomer and **A7-1-2** (365 mg) as the 2nd eluting isomer.

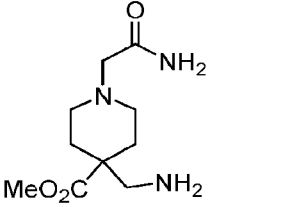
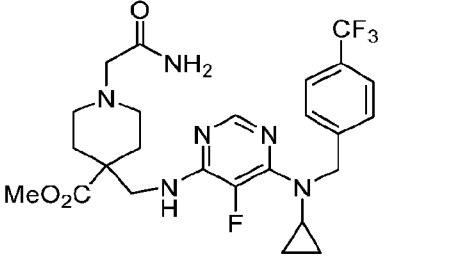
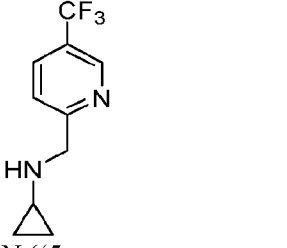
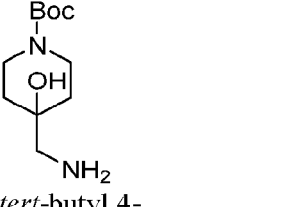
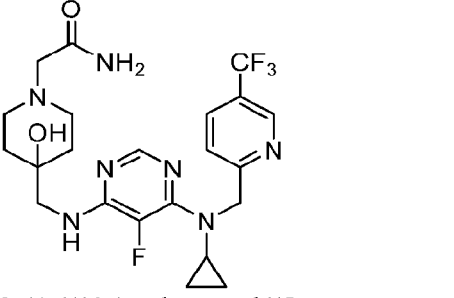
General method A was used to prepare the following example numbers using the shown starting materials (Table A).

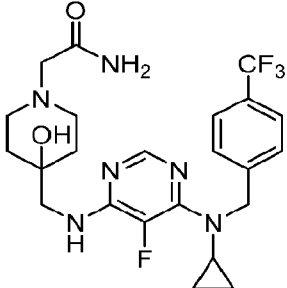
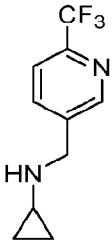
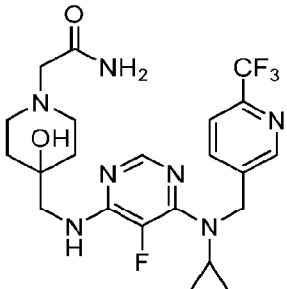
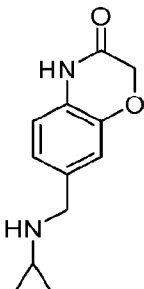
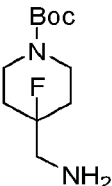
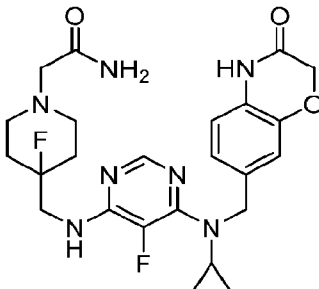
Table A:

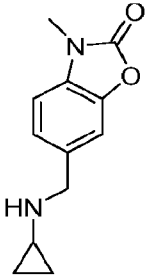
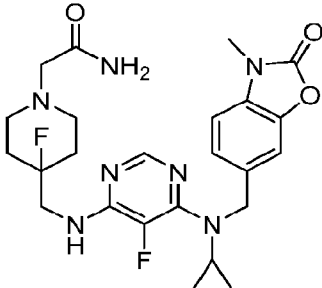
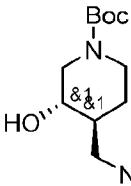
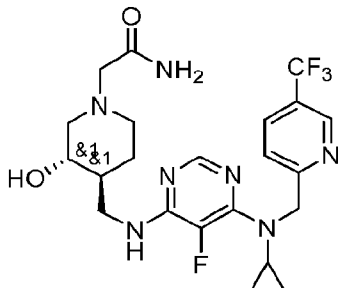
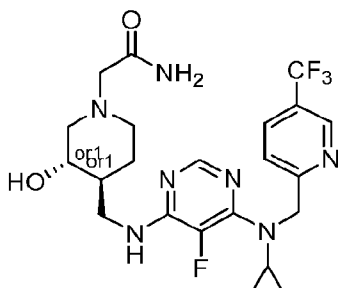
A1	A4	A7
<p>A1-2</p>  <p><i>N</i>-(2-methyl-4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>A4-2</p>  <p><i>tert</i>-butyl 4-(aminomethyl)piperidine-1-carboxylate</p>	<p>A7-2</p>  <p>2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-3</p>  <p><i>N</i>-((5-(trifluoromethyl)pyridin-2-yl)methyl)cyclopropanamine</p>	<p>A4-3</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-3,3-difluoro-piperidine-1-carboxylate</p>	<p>A7-3-1</p>  <p><i>rel</i>-(<i>R</i>)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-3</p>	<p>A4-3</p>	<p>A7-3-2</p> <p><i>rel</i>-(<i>R</i>)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 2nd eluting isomer</p>

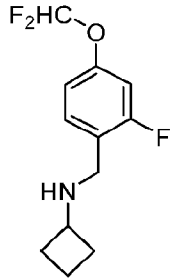
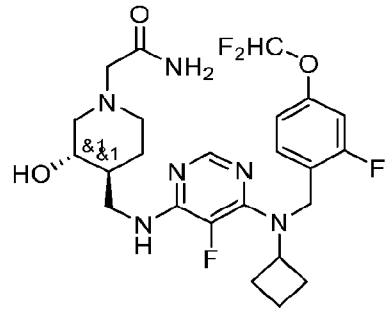
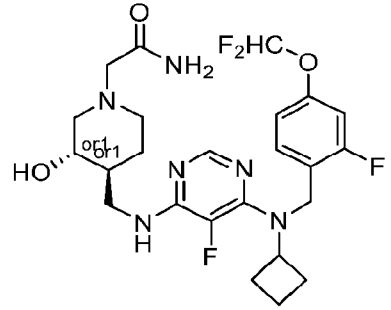
<p>A1-3</p>	<p>A4-4</p>  <p><i>rac-tert-butyl (3R,4R)-4-(aminomethyl)-3-fluoropiperidine-1-carboxylate</i></p>	<p>A7-4-1</p>  <p><i>rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide 1st eluting isomer</i></p>
<p>A1-3</p>	<p>A4-4</p>	<p>A7-4-2</p> <p><i>rel-2-((3R,4R)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide 2nd eluting isomer</i></p>
<p>A1-1</p>  <p><i>N-(4-(trifluoromethyl)benzyl)cyclopropanamine</i></p>	<p>A4-4</p>	<p>A7-5-1</p>  <p><i>rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide 1st eluting isomer</i></p>
<p>A1-1</p>	<p>A4-4</p>	<p>A7-5-2</p> <p><i>rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide 2nd eluting isomer</i></p>

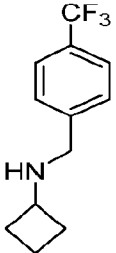
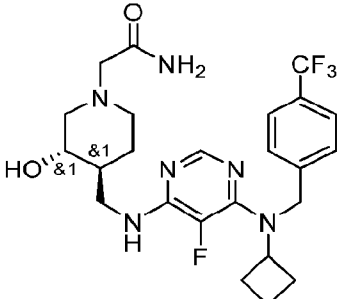
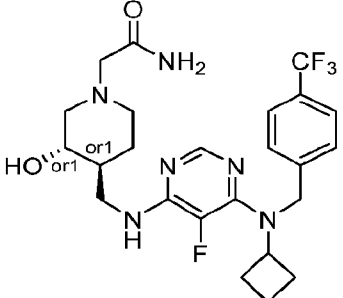
A1-1	A4-3	<p>A7-6-1</p>  <p><i>rel</i>-(<i>R</i>)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 1st eluting isomer</p>
A1-1	A4-3	<p>A7-6-2</p> <p><i>rel</i>-(<i>R</i>)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide 2nd Eluting isomer</p>
A1-1	<p>A4-5</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-3-(trifluoromethyl)piperidine-1-carboxylate</p>	<p>A7-7-1</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 1st eluting isomer</p>
A1-1	A4-5	<p>A7-7-2</p> <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 2nd eluting isomer</p>

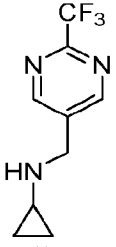
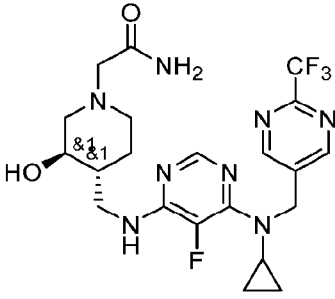
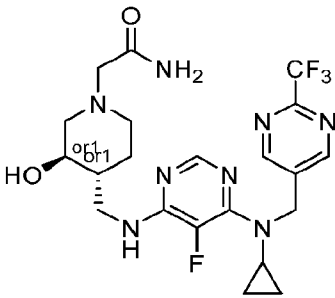
A1-1	A4-5	A7-7-3 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 3 rd eluting isomer
A1-1	A4-5	A7-7-4 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide 4 th eluting isomer
A1-1	A4-6  methyl 1-(2-amino-2-oxoethyl)-4-(aminomethyl)piperidine-4-carboxylate	A7-8  methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate
A1-3  N-((5-(trifluoromethyl)pyridin-2-yl)methyl)cyclopropanamine	A4-7  <i>tert</i> -butyl 4-(aminomethyl)-4-hydroxypiperidine-1-carboxylate	A7-9  2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide

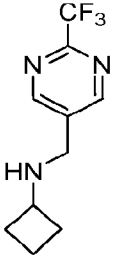
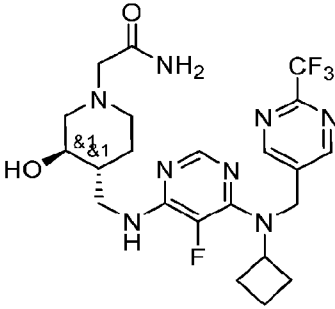
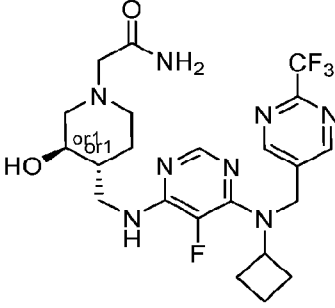
<p>A1-1</p>	<p>A4-7</p>	<p>A7-10</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-4</p>  <p>N-((6-(trifluoromethyl)pyridin-3-yl)methyl)cyclopropanamine</p>	<p>A4-7</p>	<p>A7-11</p>  <p>2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-5</p>  <p>7-((cyclopropylamino)methyl)-2H-benzo[b][1,4]oxazin-3(4H)-one</p>	<p>A4-8</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-4-fluoropiperidine-1-carboxylate</p>	<p>A7-12</p>  <p>2-(4-(((6-(cyclopropyl((3-oxo-3,4-dihydro-2H-benzo[b][1,4]oxazin-7-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-fluoropiperidin-1-yl)acetamide</p>

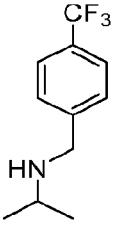
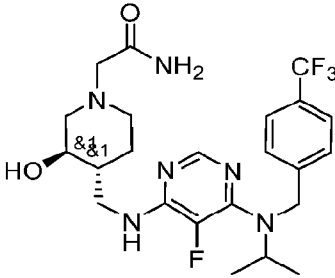
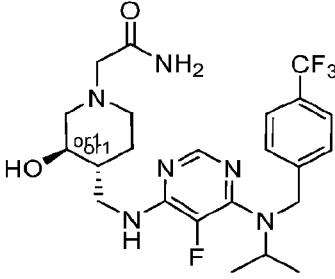
<p>A1-6</p>  <p>6- ((cyclopropylamino)methyl)-3-methylbenzo[d]oxazol-2(3H)-one</p>	<p>A4-8</p>	<p>A7-13</p>  <p>2-(4-(((6-(cyclopropyl((3-methyl-2-oxo-2,3-dihydrobenzo[d]oxazol-6-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-fluoropiperidin-1-yl)acetamide</p>
<p>A1-3</p>	<p>A4-1</p>  <p><i>rac</i>-tert-butyl (3<i>R</i>,4<i>R</i>)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate</p>	<p>A7-14</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-3</p>	<p>A4-1</p>	<p>A7-14-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>

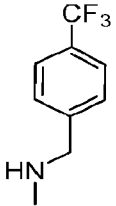
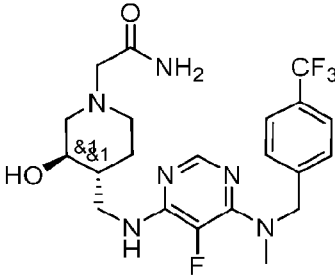
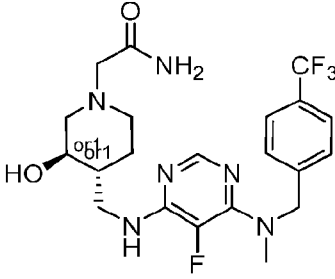
A1-3	A4-1	A7-14-2 <i>rel</i> -2-((3 <i>R</i> ,4 <i>R</i>)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2 nd eluting isomer
<p>A1-7</p>  <p><i>N</i>-(4-(difluoromethoxy)-2-fluorobenzyl)cyclobutanamine</p>	A4-1	<p>A7-15</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
A1-7	A4-1	<p>A7-15-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
A1-7	A4-1	<p>A7-15-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

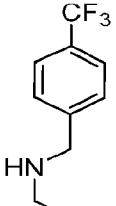
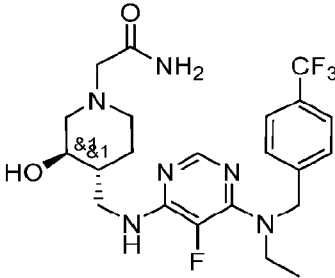
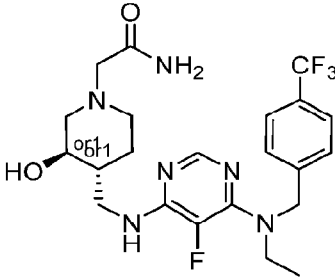
<p>A1-8</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)cyclobutanamine</p>	<p>A4-1</p>	<p>A7-16</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-8</p>	<p>A4-1</p>	<p>A7-16-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-8</p>	<p>A4-1</p>	<p>A7-16-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

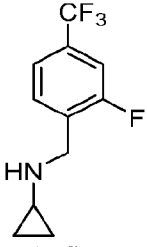
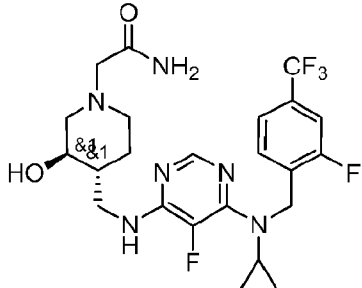
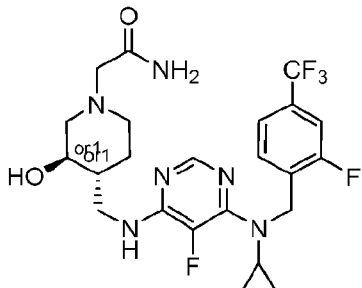
<p>A1-9</p>  <p><i>N</i>-((2-(trifluoromethyl)pyrimidin-5-yl)methyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-17</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-9</p>	<p>A4-1</p>	<p>A7-17-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-9</p>	<p>A4-1</p>	<p>A7-17-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

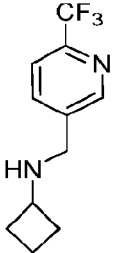
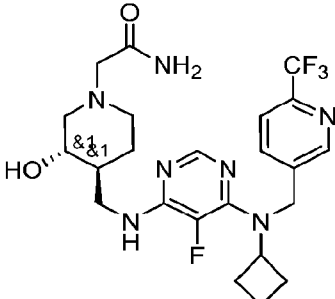
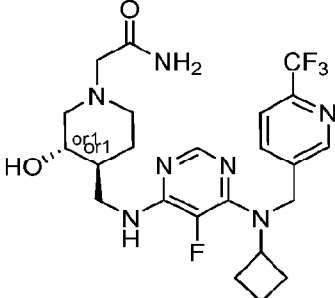
<p>A1-10</p>  <p><i>N</i>-((2-(trifluoromethyl)pyrimidin-5-yl)methyl)cyclobutamine</p>	<p>A4-1</p>	<p>A7-18</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-10</p>	<p>A4-1</p>	<p>A7-18-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-10</p>	<p>A4-1</p>	<p>A7-18-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

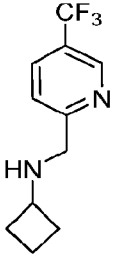
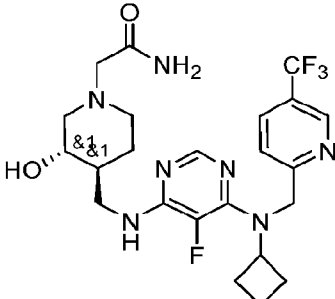
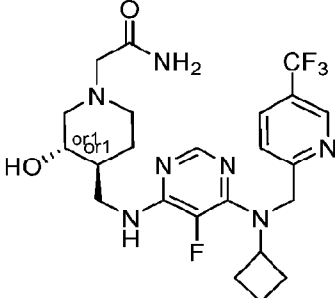
<p>A1-11</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)propan-2-amine</p>	<p>A4-1</p>	<p>A7-19</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-11</p>	<p>A4-1</p>	<p>A7-19-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-11</p>	<p>A4-1</p>	<p>A7-19-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

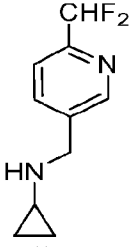
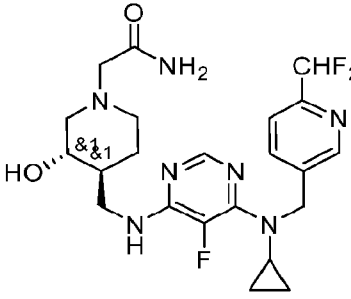
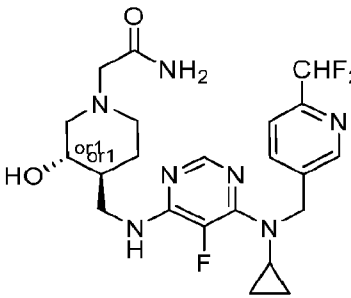
<p>A1-12</p>  <p><i>N</i>-methyl-1-(4-(trifluoromethyl)phenyl)methanamine</p>	<p>A4-1</p>	<p>A7-20</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-12</p>	<p>A4-1</p>	<p>A7-20-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-12</p>	<p>A4-1</p>	<p>A7-20-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

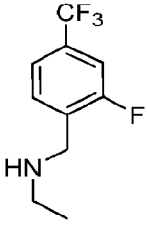
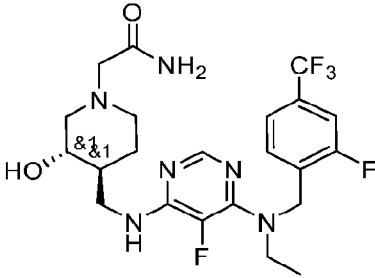
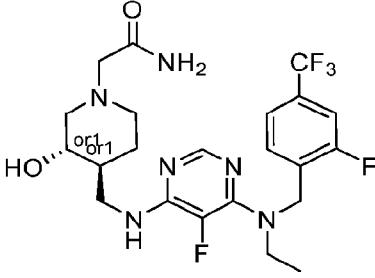
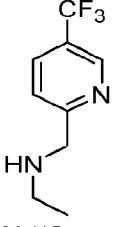
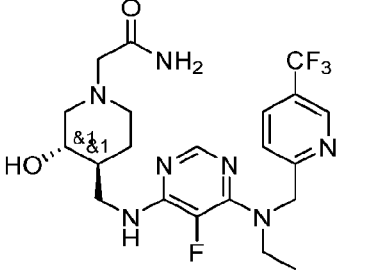
<p>A1-13</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)ethanamine</p>	<p>A4-1</p>	<p>A7-21</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-13</p>	<p>A4-1</p>	<p>A7-21-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-13</p>	<p>A4-1</p>	<p>A7-21-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

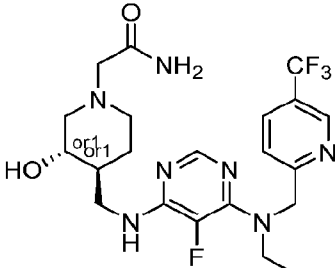
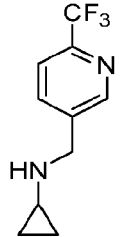
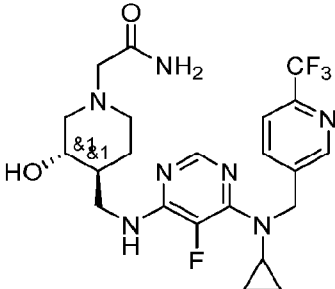
<p>A1-14</p>  <p><i>N</i>-(2-fluoro-4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-22</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-14</p>	<p>A4-1</p>	<p>A7-22-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-14</p>	<p>A4-1</p>	<p>A7-22-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>

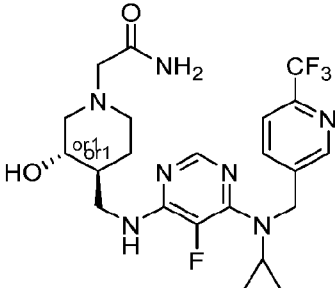
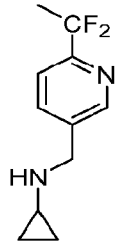
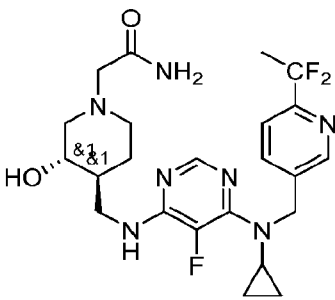
<p>A1-15</p>  <p><i>N</i>-((6-(trifluoromethyl)pyridin-3-yl)methyl)cyclobutylamine</p>	<p>A4-1</p>	<p>A7-23</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-15</p>	<p>A4-1</p>	<p>A7-23-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-15</p>	<p>A4-1</p>	<p>A7-23-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

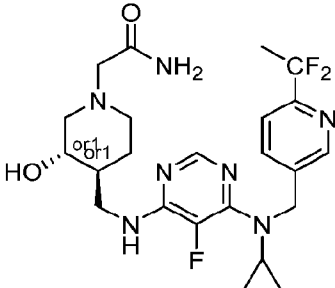
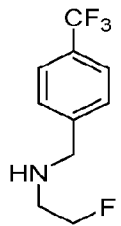
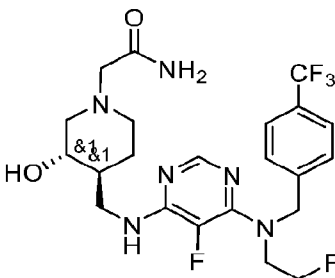
<p>A1-16</p>  <p><i>N</i>-((5-(trifluoromethyl)pyridin-2-yl)methyl)cyclobutylamine</p>	<p>A4-1</p>	<p>A7-24</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-16</p>	<p>A4-1</p>	<p>A7-24-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-16</p>	<p>A4-1</p>	<p>A7-24-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

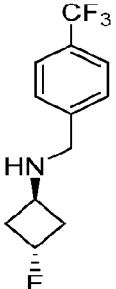
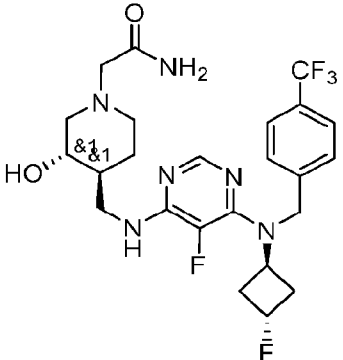
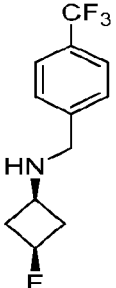
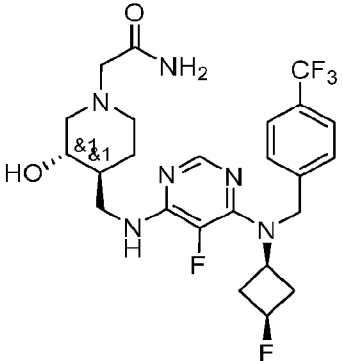
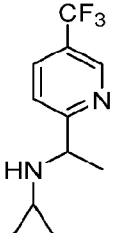
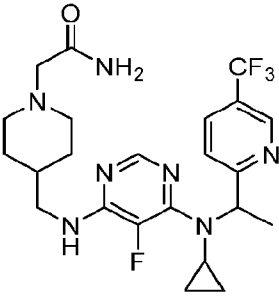
<p>A1-17</p>  <p><i>N</i>-((6-(difluoromethyl)pyridin-3-yl)methyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-25</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-17</p>	<p>A4-1</p>	<p>A7-25-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-17</p>	<p>A4-1</p>	<p>A7-25-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

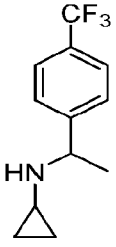
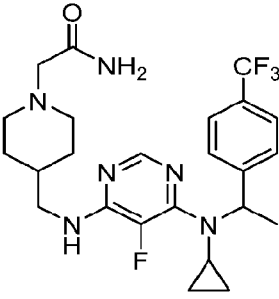
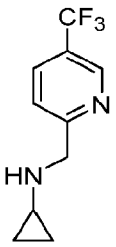
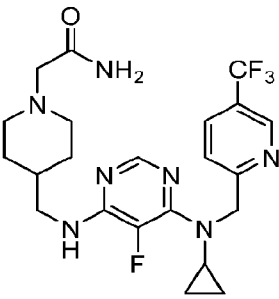
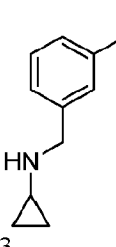
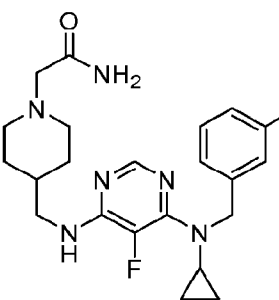
<p>A1-18</p>  <p><i>N</i>-(2-fluoro-4-(trifluoromethyl)benzyl)ethanamine</p>	<p>A4-1</p>	<p>A7-26</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-18</p>	<p>A4-1</p>	<p>A7-26-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-18</p>	<p>A4-1</p>	<p>A7-26-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-19</p>  <p><i>N</i>-((5-(trifluoromethyl)pyridin-2-yl)methyl)ethanamine</p>	<p>A4-1</p>	<p>A7-27</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

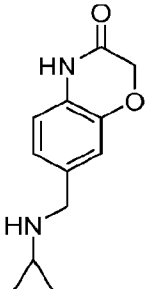
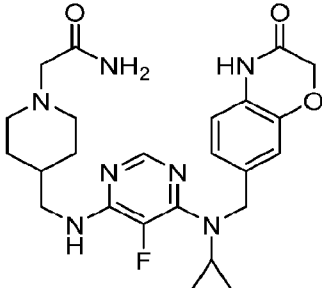
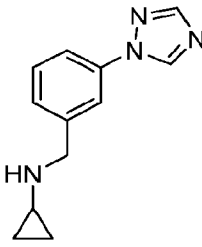
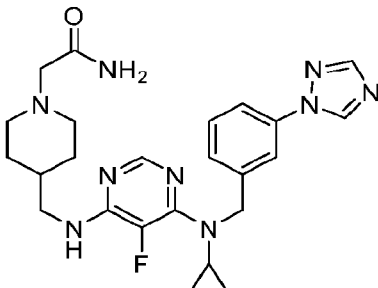
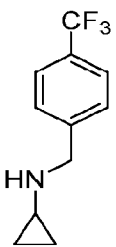
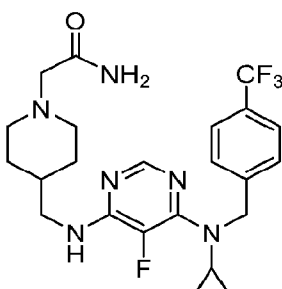
<p>A1-19</p>	<p>A4-1</p>	<p>A7-27-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-19</p>	<p>A4-1</p>	<p>A7-27-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-4</p>  <p><i>N</i>-((6-(trifluoromethyl)pyridin-3-yl)methyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-28</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

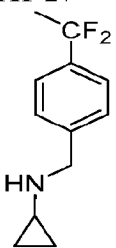
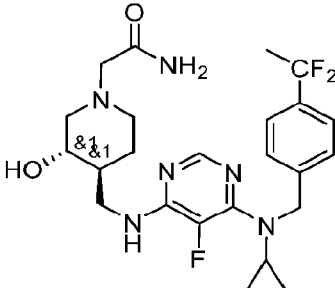
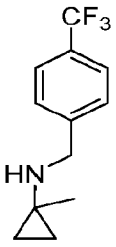
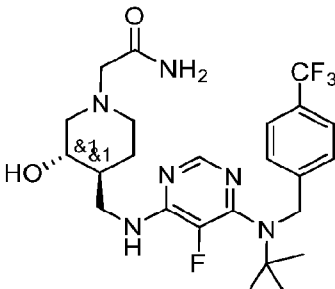
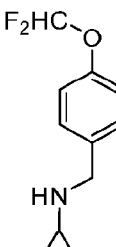
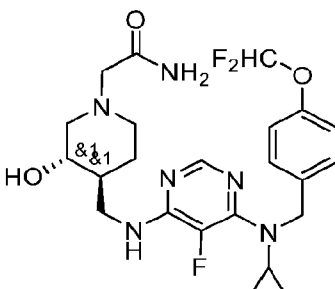
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<p>A1-4</p>	<p>A4-1</p>	<p>A7-28-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-20</p>  <p><i>N</i>-((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-29</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

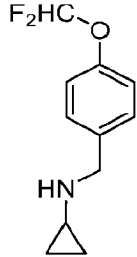
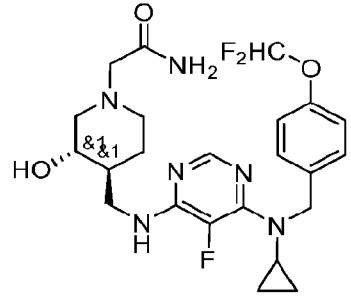
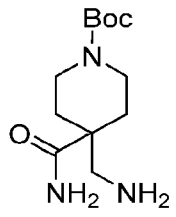
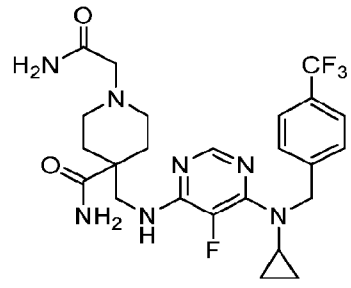
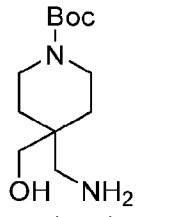
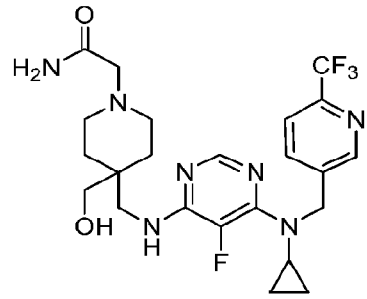
<p>A1-20</p>	<p>A4-1</p>	<p>A7-29-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-20</p>	<p>A4-1</p>	<p>A7-29-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-21</p> 	<p>A4-1</p>	<p>A7-30</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

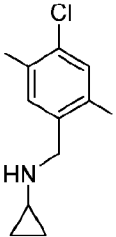
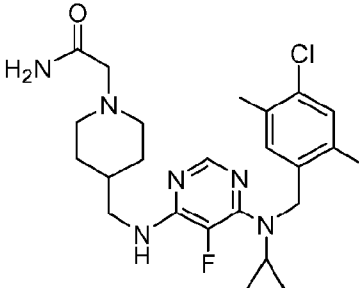
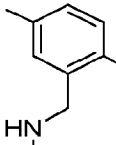
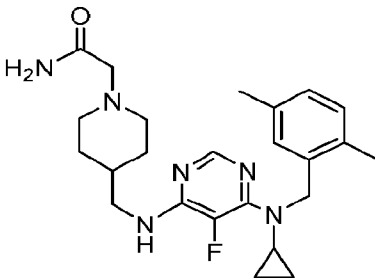
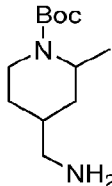
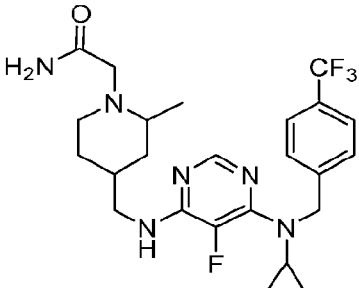
<p>A1-22a</p>  <p>(1r,3r)-3-fluoro-N-(4-(trifluoromethyl)benzyl)cyclobutan-1-amine</p>	<p>A4-1</p>	<p>A7-31</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(((1<i>r</i>,3<i>S</i>)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-22b</p>  <p>(1s,3s)-3-fluoro-N-(4-(trifluoromethyl)benzyl)cyclobutan-1-amine</p>	<p>A4-1</p>	<p>A7-32</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(((1<i>s</i>,3<i>R</i>)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-23</p>  <p><i>N</i>-(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-33</p>  <p>2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>

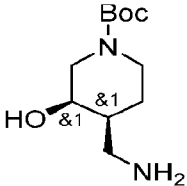
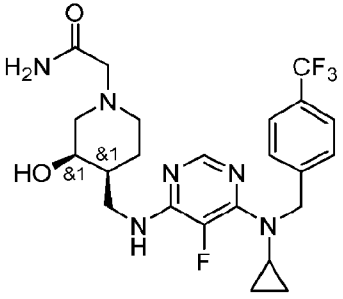
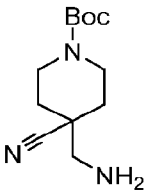
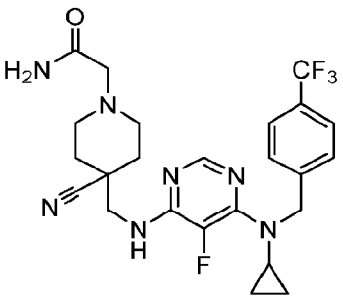
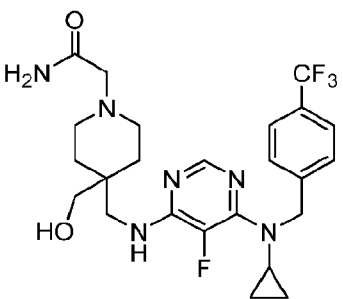
<p>A1-24</p>  <p><i>N</i>-(1-(4-(trifluoromethyl)phenyl)ethyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-34</p>  <p>2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-3</p>  <p><i>N</i>-((5-(trifluoromethyl)pyridin-2-yl)methyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-35</p>  <p>2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-25</p>  <p>3-((cyclopropylamino)methyl)benzotrile</p>	<p>A4-2</p>	<p>A7-36</p>  <p>2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>

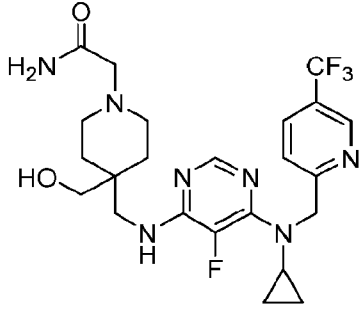
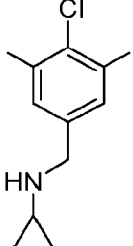
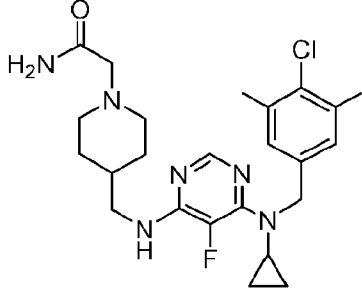
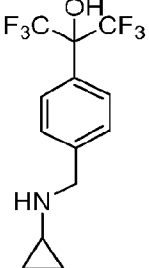
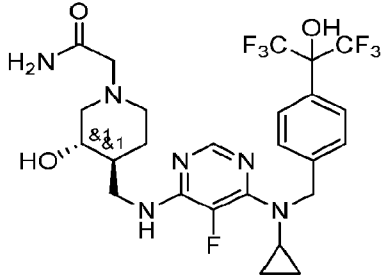
<p>A1-5</p>  <p>7- ((cyclopropylamino)methyl)-2H-benzo[<i>b</i>][1,4]oxazin-3(4H)-one</p>	<p>A4-2</p>	<p>A7-37</p>  <p>2-(4-(((6-(cyclopropyl((3-oxo-3,4-dihydro-2H-benzo[<i>b</i>][1,4]oxazin-7-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-26</p>  <p><i>N</i>-(3-(1H-1,2,4-triazol-1-yl)benzyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-38</p>  <p>2-(4-(((6-((3-(1H-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-1</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-39</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>

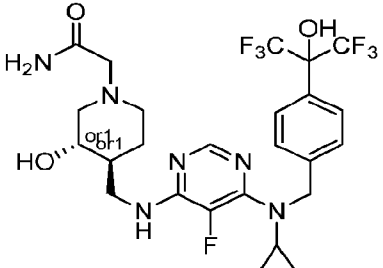
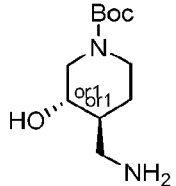
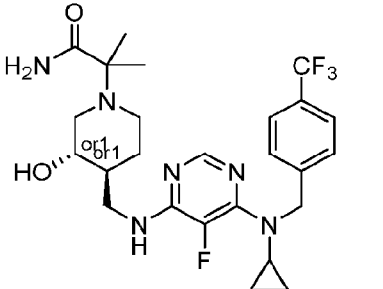
<p>A1-27</p>  <p>N-(4-(1,1-difluoroethyl)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-40</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-28</p>  <p>1-methyl-<i>N</i>-(4-(trifluoromethyl)benzyl)cyclopropan-1-amine</p>	<p>A4-1</p>	<p>A7-41</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-29</p>  <p><i>N</i>-(4-(difluoromethoxy)-2-fluorobenzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-42</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

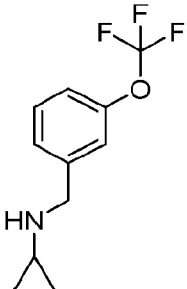
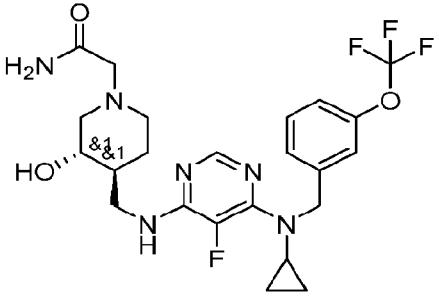
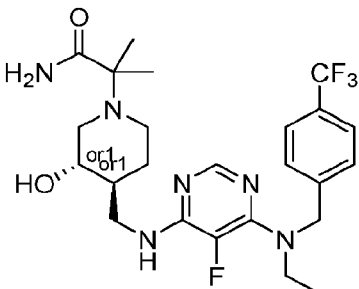
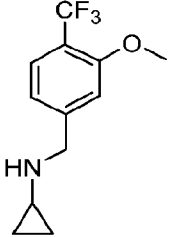
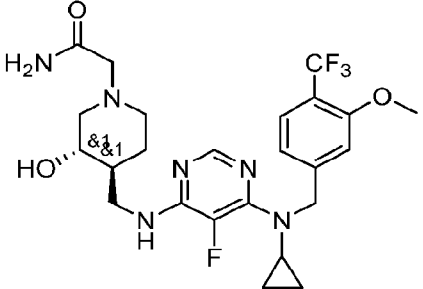
<p>A1-30</p>  <p><i>N</i>-(4-(difluoromethoxy)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-43</p>  <p><i>rac</i>-2-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-1</p>	<p>A4-9</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-4-carbamoylpiperidine-1-carboxylate</p>	<p>A7-44</p>  <p>1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide</p>
<p>A1-4</p>	<p>A4-10</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-4-(hydroxymethyl)piperidine-1-carboxylate</p>	<p>A7-45</p>  <p>2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide</p>

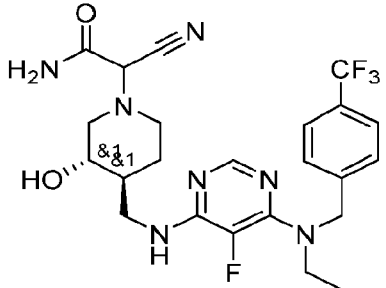
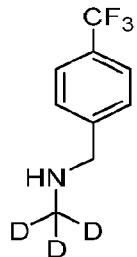
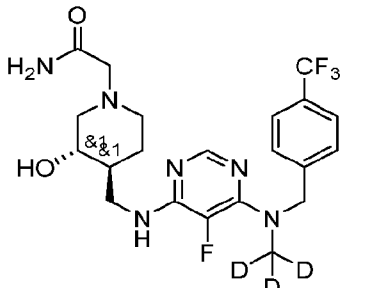
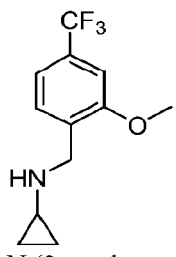
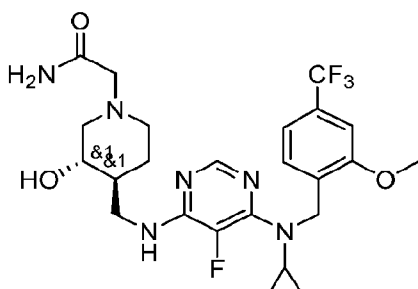
<p>A1-31</p>  <p><i>N</i>-(4-chloro-2,5-dimethylbenzyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-46</p>  <p>2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-32</p>  <p><i>N</i>-(2,5-dimethylbenzyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-47</p>  <p>2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-1</p>	<p>A4-11</p>  <p><i>tert</i>-butyl 4-(aminomethyl)-2-methylpiperidine-1-carboxylate</p>	<p>A7-48</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-2-methylpiperidin-1-yl)acetamide</p>

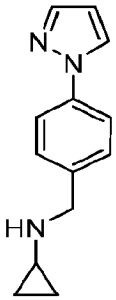
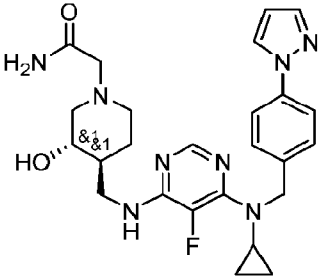
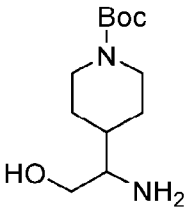
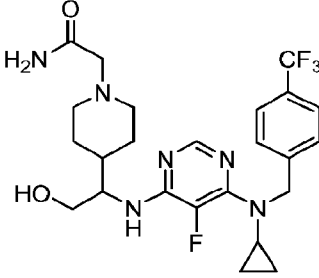
<p>A1-1</p>	<p>A4-12</p>  <p><i>rac-tert-butyl (3R,4S)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate</i></p>	<p>A7-49</p>  <p><i>rac-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</i></p>
<p>A1-1</p>	<p>A4-13</p>  <p><i>tert-butyl 4-(aminomethyl)-4-cyanopiperidine-1-carboxylate</i></p>	<p>A7-50</p>  <p><i>2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</i></p>
<p>A1-1</p>	<p>A4-10</p>	<p>A7-51</p>  <p><i>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide</i></p>

<p>A1-3</p>	<p>A4-10</p>	<p>A7-52</p>  <p>2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide</p>
<p>A1-33</p>  <p><i>N</i>-(4-chloro-3,5-dimethylbenzyl)cyclopropanamine</p>	<p>A4-2</p>	<p>A7-53</p>  <p>2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide</p>
<p>A1-34</p>  <p>2-(4-(((cyclopropylamino)methyl)phenyl)-1,1,1,3,3,3-hexafluoropropan-2-ol</p>	<p>A4-1</p>	<p>A7-54</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

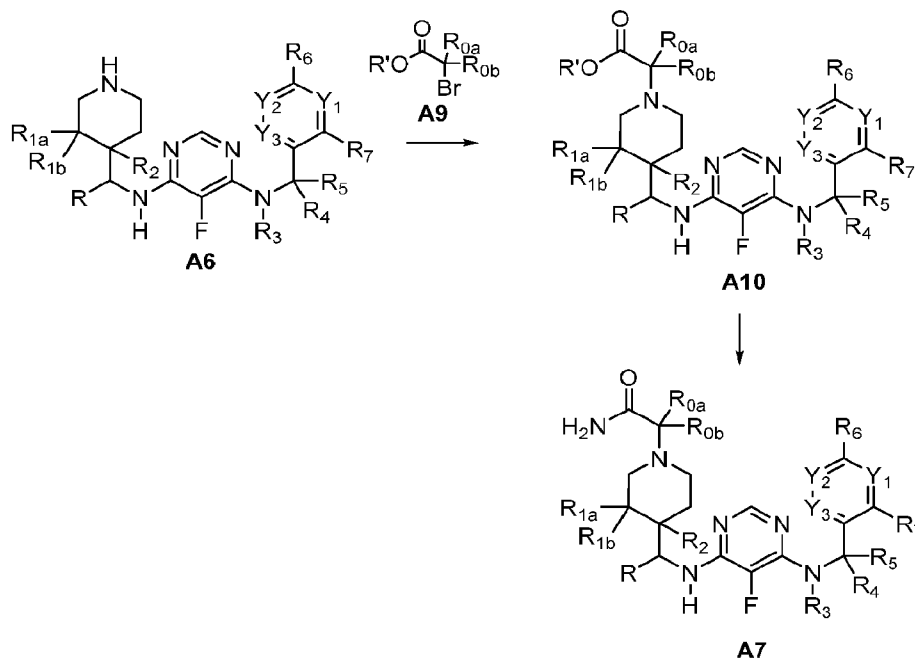
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A1-34	A4-1	<p>A7-54-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
A1-1	<p>A4-1^{''}</p>  <p><i>rel</i>-<i>tert</i>-butyl (3<i>R</i>,4<i>R</i>)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate Enantiomerically enriched</p>	<p>A7-55^{''}</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide Enantiomerically enriched</p>

<p>A1-35</p>  <p><i>N</i>-(3-(trifluoromethoxy)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-56</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-13</p>	<p>A4-1" Enantiomerically enriched</p>	<p>A7-57"</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide Enantiomerically enriched</p>
<p>A1-36</p>  <p><i>N</i>-(3-methoxy-4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-58</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-13</p>	<p>A4-1</p>	<p>A7-59</p>  <p><i>rac</i>-2-cyano-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-37</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)methan-<i>d</i>₃-amine</p>	<p>A4-1</p>	<p>A7-60</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-((methyl-<i>d</i>₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-40</p>  <p><i>N</i>-(2-methoxy-4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-61</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-66</p>  <p><i>N</i>-(4-(1<i>H</i>-pyrazol-1-yl)benzyl)cyclopropanamine</p>	<p>A4-1</p>	<p>A7-86</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-(1<i>H</i>-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-1</p>	<p>A4-14</p>  <p><i>tert</i>-butyl 4-(1-amino-2-hydroxyethyl)piperidine-1-carboxylate</p>	<p>A7-87</p>  <p>2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide</p>

General Method 2A - Synthesis with substituted bromoacetamides.



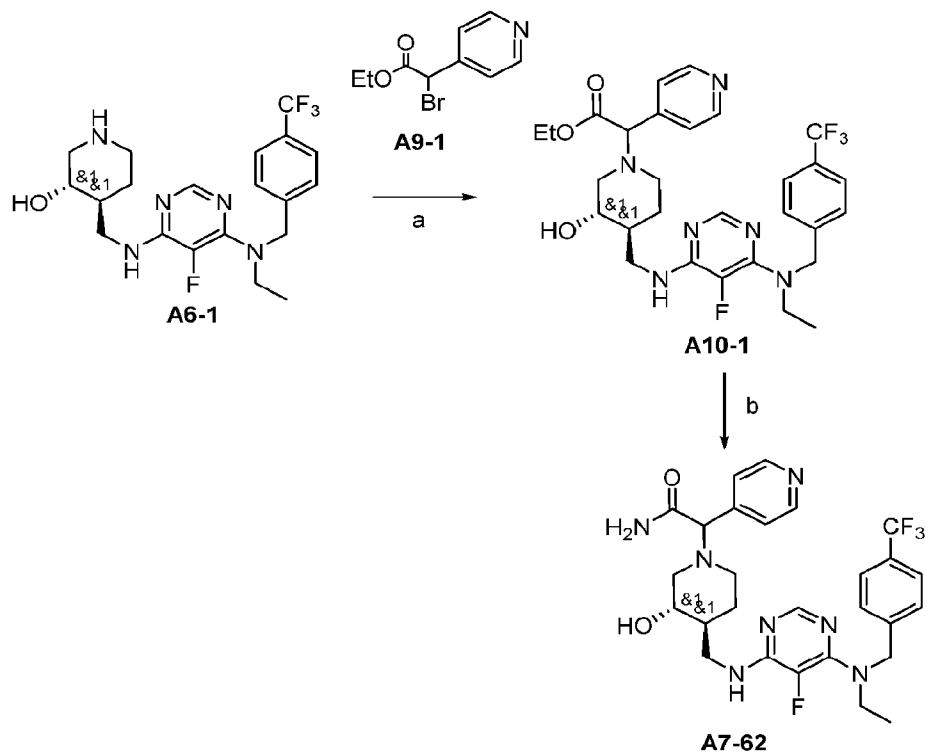
A7 has also been obtained by alkylation of **A6** with **A9**, to give **A10**, followed by subsequent aminolysis (NH_3 in MeOH) to yield **A7**. However, in addition to the alkylating procedure described above, the alkylation may require an elevated temperature (up to 100 °C).

5 When **A7** was a mixture of stereoisomers they were often (but not always) subjected to chiral resolution (chromatography) to obtain the single stereoisomers as end products.

Example A7-62

10 **Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, A7-62**

212

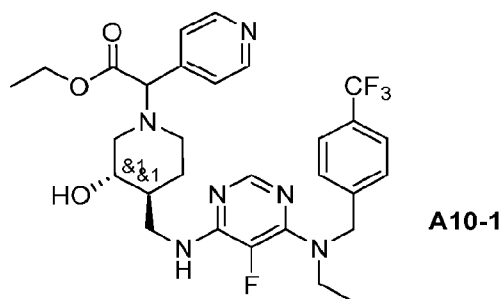


a) DIEA, DMF. b) NH₃, MeOH.

Scheme A7-62

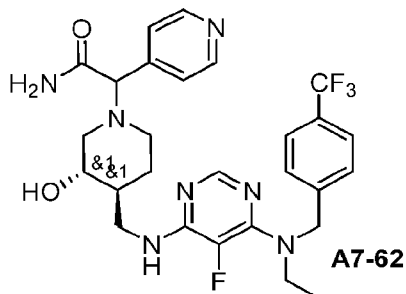
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***rac*-Ethyl 2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetate, **A10-1**.**



DIEA (0.89 ml, 5.1 mmol) and ethyl 2-bromo-2-(4-pyridyl)acetate (229 mg, 0.94 mmol) were in turn added to a solution of **A6-1** (425 mg, 0.85 mmol) in DMF (11 mL) and the reaction was stirred on at rt. The reaction was quenched with H₂O (60 mL) and then extracted with EA (3 x 30 mL). The combined organic layers were washed with brine (3 x 15 mL), dried (Na₂SO₄), filtered and concentrated *in vacuo*. The residue was then purified by Flash CC (DCM:MeOH=100:0 to 93:7) to afford **A10-1** (218 mg, 0.37 mmol).

***rac*-2-((3*R*,4*R*)-4-(((6-(Ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, A7-62.**



5

A10-1 (218 mg, 0.37 mmol) was dissolved in 7N ammonia in MeOH (10 mL) and the resulting solution was stirred at 80 °C for 45 h in a closed flask. The solution was concentrated *in vacuo* and the residue purified by chromatography; first C18 column (H₂O:MeOH= 100:0 to 0:100) and thereafter the purified material was subjected to Flash CC (DCM:MeOH= 10:0 to 9:1) to afford **A7-62** (18 mg, 32 μmol).

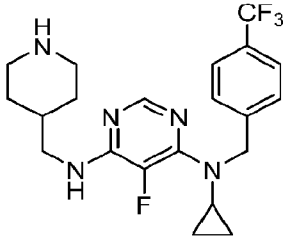
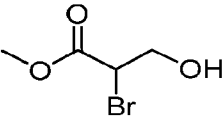
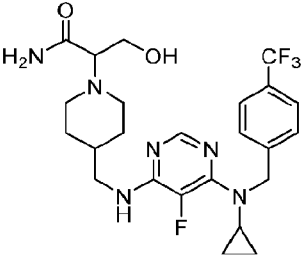
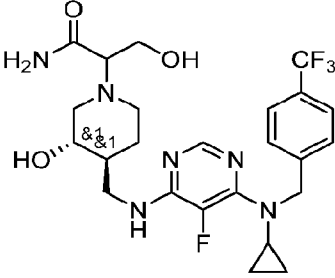
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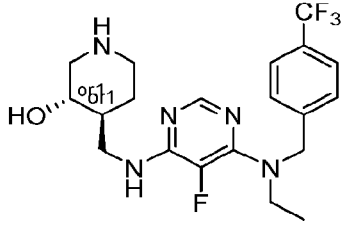
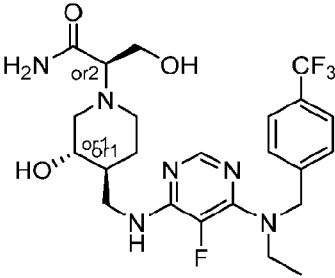
The following examples were synthesized according to **General Method 2A**.

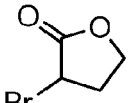
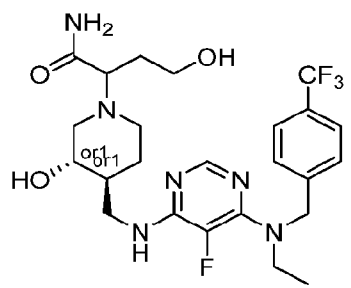
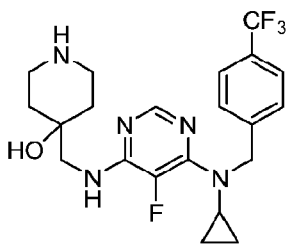
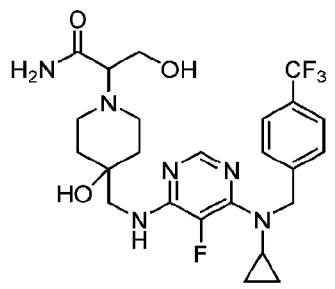
Table 2A:

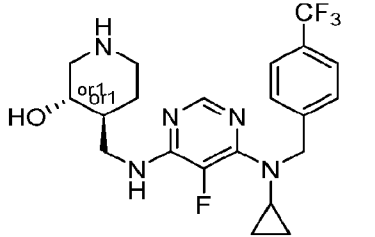
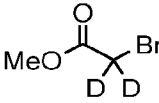
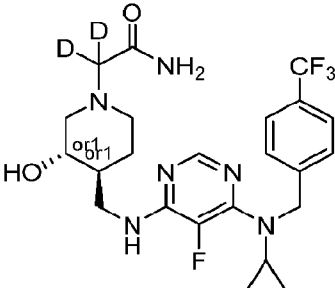
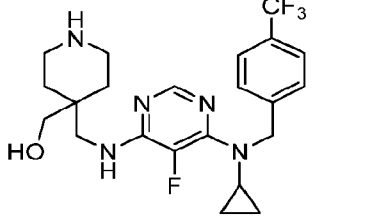
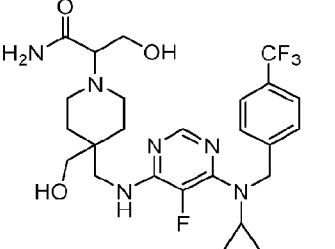
15

A6	A9	A7
<p>A6-2</p> <p><i>rac</i>-(3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-3-ol</p>	<p>A9-1</p> <p>ethyl 2-bromo-2-(pyridin-4-yl)acetate</p>	<p>A7-63</p> <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide</p>

<p>A6-5</p>  <p><i>N</i>⁴-cyclopropyl-5-fluoro-<i>N</i>⁶-(piperidin-4-ylmethyl)-<i>N</i>³-(4-(trifluoromethyl)benzyl)pyrimidine-4,6-diamine</p>	<p>A9-2</p>  <p>methyl 2-bromo-3-hydroxypropanoate</p>	<p>A7-64</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide</p>
<p>A6-2</p>	<p>A9-2</p>	<p>A7-65</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide</p>

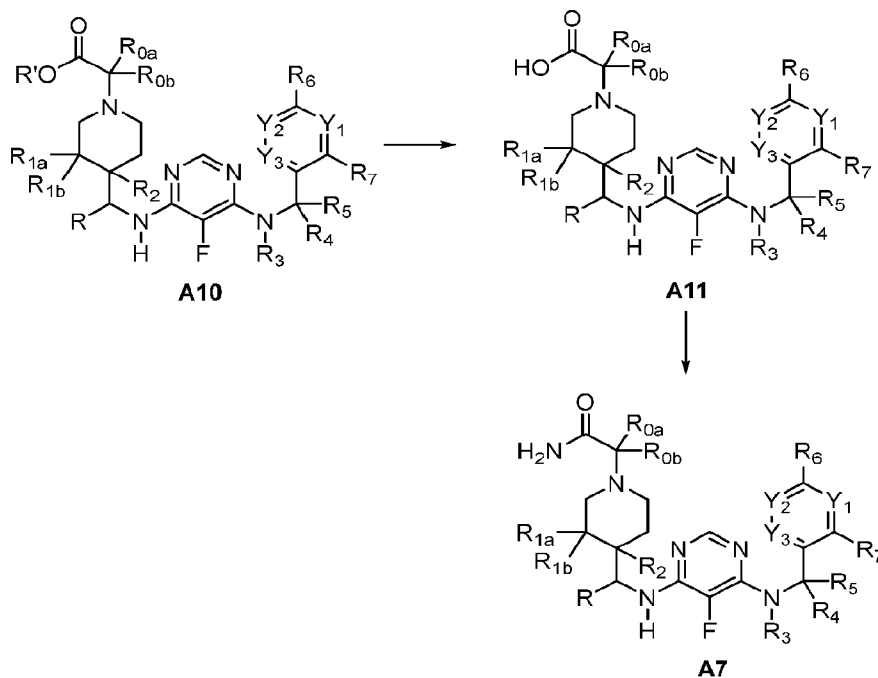
<p>A6-1''</p>  <p><i>rel</i>-(3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-3-ol Enantiomerically enriched</p>	<p>A9-2</p>	<p>A7-66-1</p>  <p><i>rel</i>-(<i>R</i>)-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide OR <i>rel</i>-(<i>R</i>)-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide 1st eluting major isomer</p>
<p>A6-1''</p>	<p>A9-2</p>	<p>A7-66-2</p> <p><i>rel</i>-(<i>R</i>)-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide OR <i>rel</i>-(<i>R</i>)-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide 2nd eluting major isomer</p>

<p>A6-1''</p>	<p>A9-3</p>  <p>3-bromodihydrofuran-2(3H)-one</p>	<p>A7-67''</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide Enantiomerically enriched</p>
<p>A6-6</p>  <p>4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-4-ol</p>	<p>A9-2</p>	<p>A7-68</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide</p>

<p>A6-2''</p>  <p><i>rel</i>-(3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-3-ol Enantiomerically enriched</p>	<p>A9-4</p> 	<p>A7-69''</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-<i>d</i>₂ Enantiomerically enriched</p>
<p>A6-7</p>  <p>(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-4-yl)MeOH</p>	<p>A9-2</p>	<p>A7-70</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide</p>

For the A7-66-1 and A7-66-2 compounds only the 2 major isomers were isolated.

General Method 3A - Synthesis with substituted bromoacetamides.



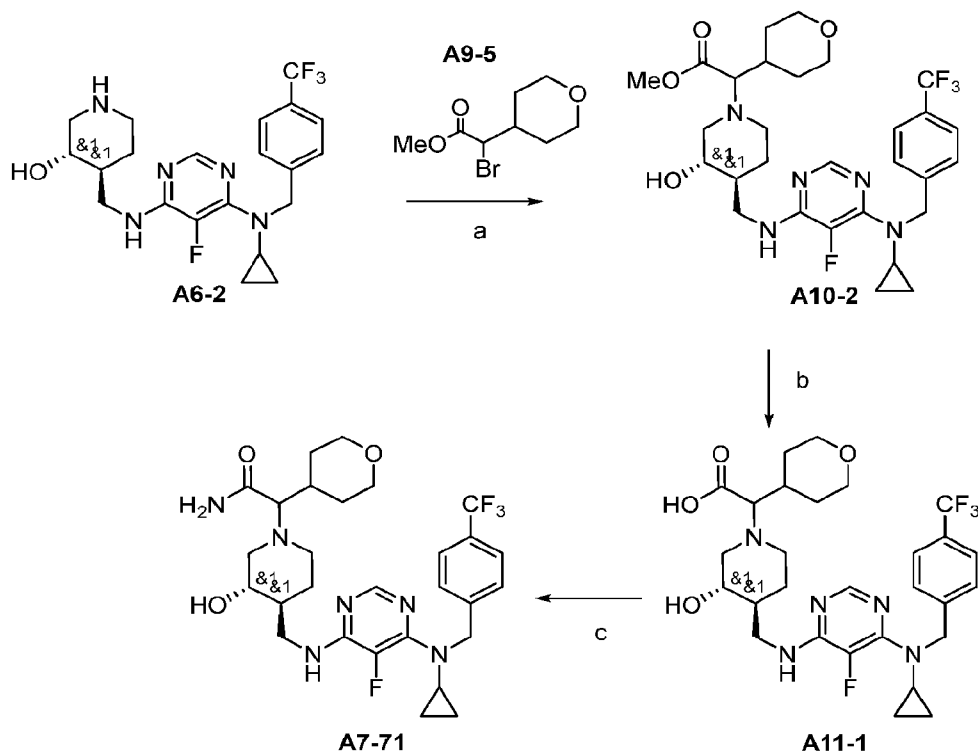
A7 has also been synthesized from **A10** by hydrolysis of the ester (with a suitable base such as LiOH or NaOH) to yield **A11** (or the corresponding metal salt) followed by a coupling reaction with NH₃ (employing standard coupling reagents such as HATU).

5

Example A7-71

Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2H-pyran-4-yl)acetamide, **A7-71**.

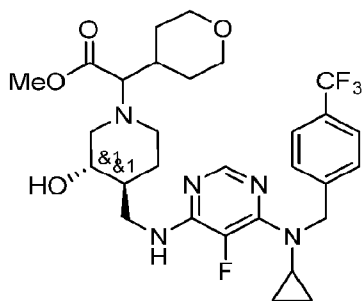
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a) DIEA, DMF. b) LiOH, THF/MeOH (1/1). c) NH₃, TEA, HATU, THF.

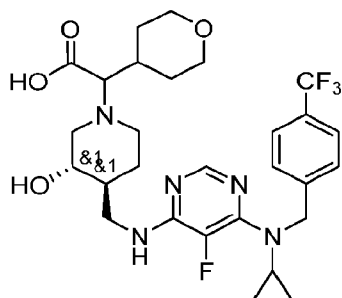
Scheme A7-71

- 5 ***rac*-Methyl 2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetate, A10-2**



DIEA (0.82 ml, 4.7 mmol) and methyl 2-bromo-2-tetrahydropyran-4-yl-acetate (383 mg, 1.61 mmol) were in turn added to a solution of intermediate **A6-2** (400 mg, 0.78 mmol) in DMF (8.5 mL) and the reaction was stirred 24 h at 60°C. The reaction was quenched with H₂O (60 mL) and then extracted with EA (3 x 30 mL). The combined organic layers were washed with brine (3 x 15 mL), dried (Na₂SO₄), filtered and concentrated *in vacuo*. The residue was then purified by Flash CC (DCM:MeOH=100:0 to 95:5) to afford **A10-2** (131 mg, 0.22 mmol).

***rac*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2H-pyran-4-yl)acetic acid, A11-1**

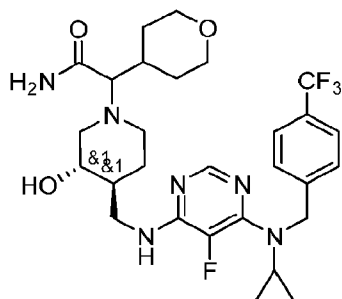


5

A10-2 (131 mg, 0.22 mmol) was dissolved in THF (1 mL) and MeOH (1 mL) and a solution of LiOH monohydrate (33 mg, 0.79 mmol) was added and the mixture was stirred on at 60°C. Solvent was evaporated, obtaining 125 mg of crude. This crude was purified using a C18 column (H₂O:MeOH=100:0 to 0:100) to afford **A11-1** (34 mg, 0.058 mmol).

10

***rac*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2H-pyran-4-yl)acetamide, A7-71**

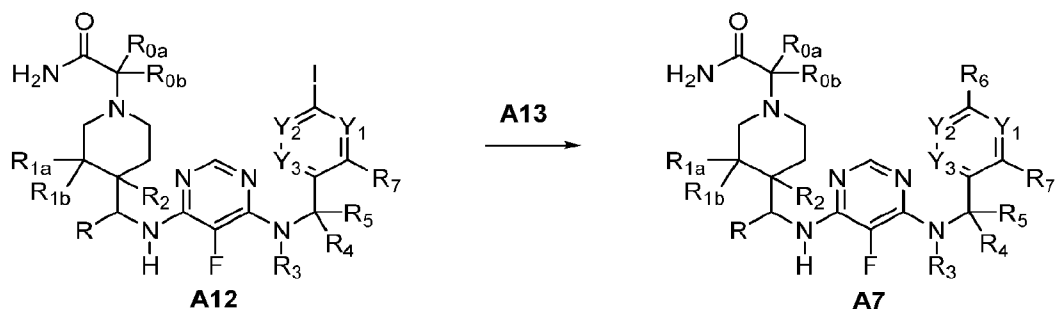


15

A11-1 (34 mg, 0.058 mmol) was dissolved in DMF (0.5 mL) and 0.4 M ammonia solution in THF (22 μL, 0.18 mmol), HATU (33 mg, 0.09 mmol) and triethylamine (40 μL, 0.29 mmol) were added and the mixture was stirred on at rt. Work-up was done by adding H₂O and extracting with EA (3x20 mL). Organic phase was washed with 1N NaOH aq. and brine, affording 7 mg of crude. The crude was purified by Flash CC (DCM:MeOH=100:0 to 90:10) to afford **A7-71** (2.8 mg, 0.005 mmol).

20

General Method 4A

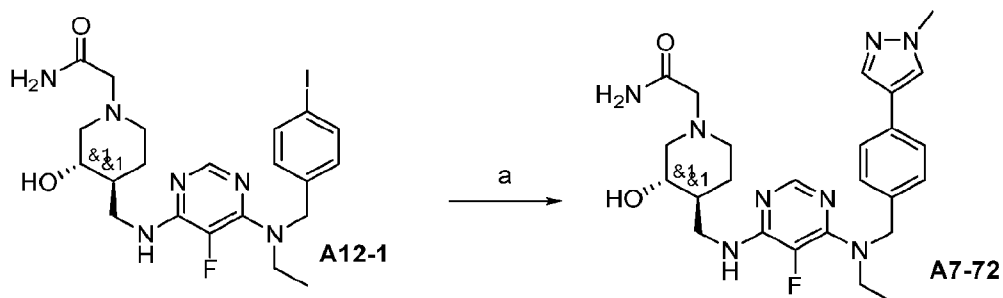


When **R6** was a heterocyclic ring the iodo-intermediate **A12**, synthesized as outlined
 5 in **General Method A** from the corresponding iodo-benzylamine, underwent either Suzuki
 coupling (together with Pd and boronic acid, or esters) or a standard Buchwald coupling
 (together with Cu and a nitrogen containing heterocyclic ring) to give **A7**.

Example A7-72

10

Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-
 yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-
 yl)acetamide, **A7-72**



15

a) Standard Suzuki coupling

Scheme A7-72

Under N₂ atmosphere, 1-methyl-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1*H*-
 20 pyrazole **A13-1** (17 mg, 82 μmol), 2*M* Cs₂CO₃ (111 μL, 0.22 mmol) and [1,1'-
 bis(diphenylphosphino) ferrocene]dichloropalladium(II), complex with DCM (6 mg, 7 μmol)
 were added to a solution of **A12-1** (40 mg, 74 μmol) in dioxane (1 mL). The reaction mixture
 was stirred at 100°C for 4h. H₂O was added, and the product was extracted with EA (x3). The

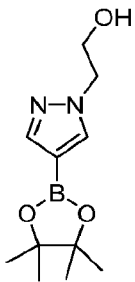
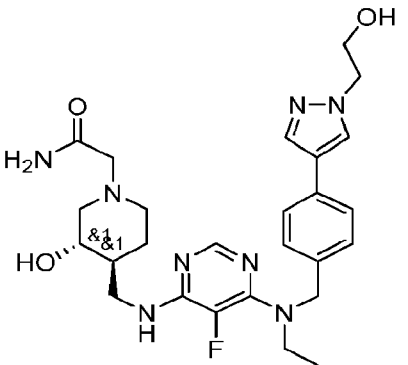
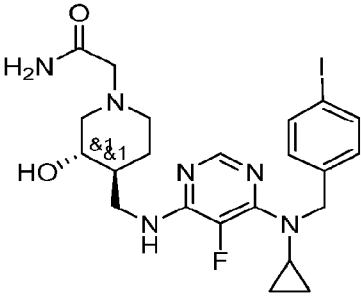
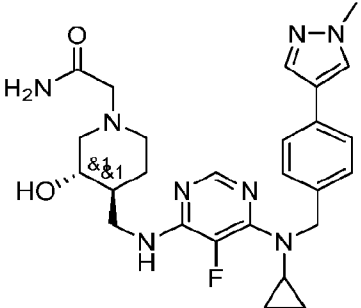
combined organic layer was washed with H₂O, brine, dried (MgSO₄), filtered and concentrated *in vacuo*. The residue was first purified by flash CC (MeOH:DCM=1:9) and then by C18 column (H₂O:MeOH=100:0 to 0:100) to yield **A7-72** (8 mg, 16 μmol) as a white solid.

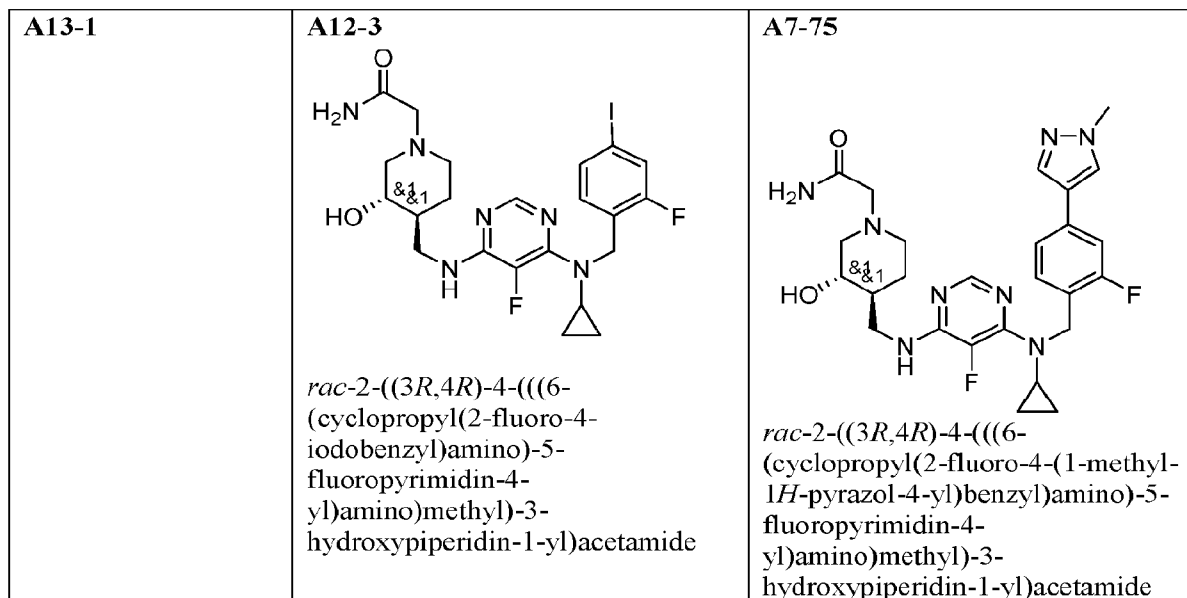
LCMS: MS Calcd.: 496.6; MS Found: 497 ([M+H]⁺).

5

The following compounds were synthesized according to **Method 4A**, like example **A7-72**, using the shown starting materials (Table 4A).

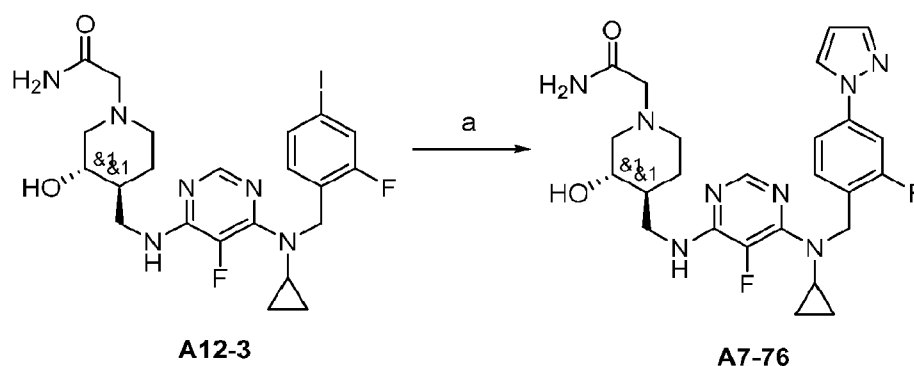
Table 4A:

<p>A13 A13-2</p>  <p>2-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazol-1-yl)ethan-1-ol</p>	<p>A12 A12-1</p>	<p>A7 A7-73</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1<i>H</i>-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A13-1</p>	<p>A12-2</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-iodobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>	<p>A7-74</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1-methyl-1<i>H</i>-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>



Example A7-76

- 5 **Synthesis of *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, A7-76**



- 10 a) Standard Buchwald coupling

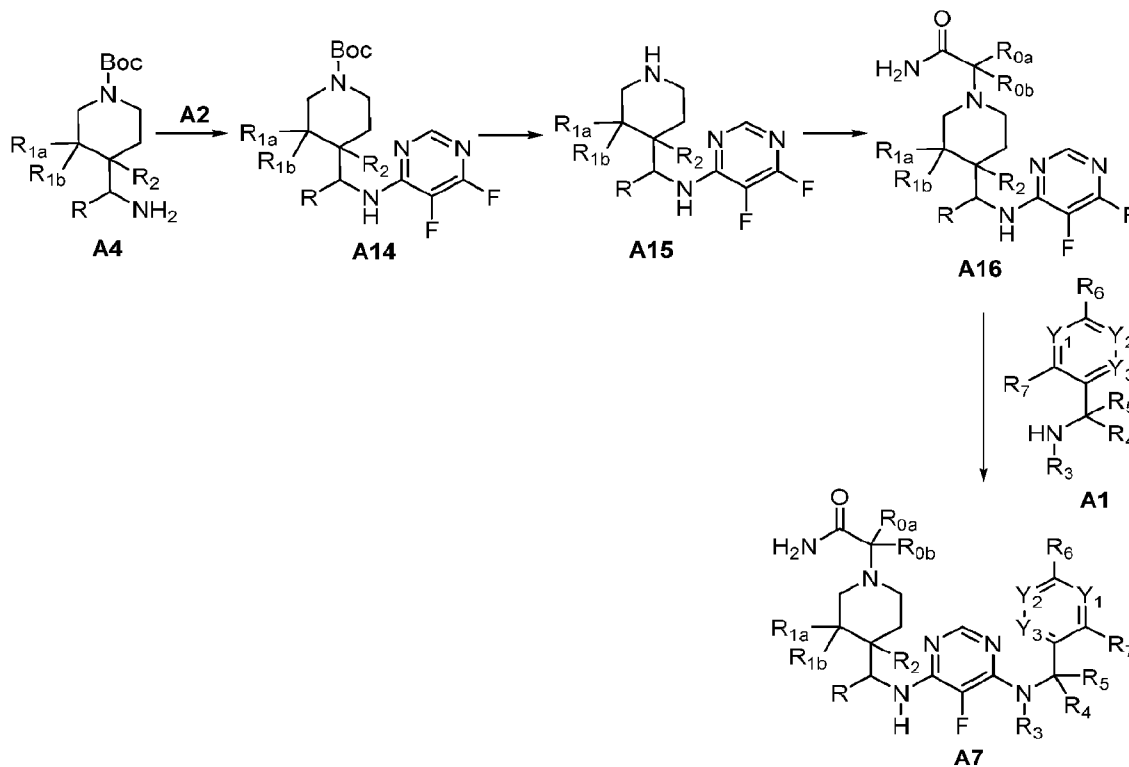
Scheme A7-76

- Under N_2 atmosphere, 1*H*-pyrazole (30 mg, 0.44 mmol), K_2CO_3 (38 mg, 0.27 mmol), trans-1,2-cyclohexane-1,2-diamine (6.6 μ L, 55 μ mol) and CuI (2.6 mg, 14 μ mol) were added to a solution of **A12-3** in NMP (2 mL). The reaction mixture was stirred to reflux on. Additional amount of all the reagents was added and the mixture was heated to reflux for one
- 15

more day. H₂O was added and the product was extracted with EA (x3). The combined organic layer was washed with H₂O, brine, dried (MgSO₄), filtered and concentrated *in vacuo*. The residue was then purified by Flash CC (MeOH:DCM=15:85) and then by C18 column (H₂O:MeOH=100:0 to 0:100) to afford **A7-76** (35 mg, 68 μmol) as a white solid.

5 LCMS: MS Calcd.: 512.6; MS Found: 513 ([M+H]⁺).

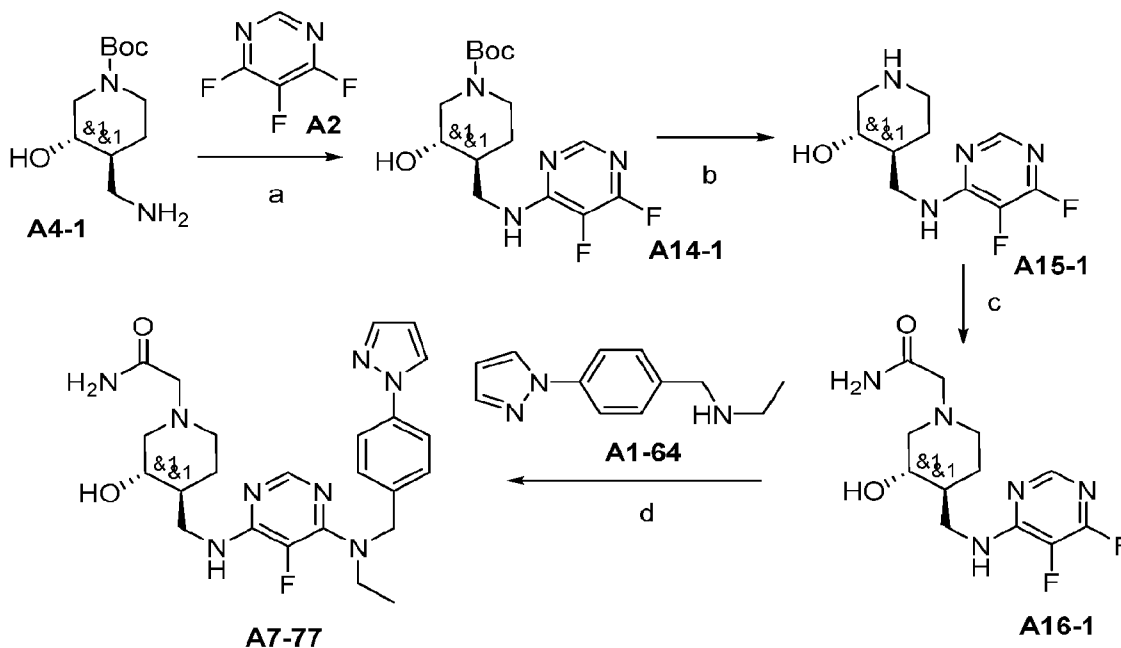
General Method 5A: from left to right



10 The primary amine **A4** was reacted with **A2** (at ambient temperature or slightly above, ie 30°C) together with a suitable base (such as; DIEA, TEA or K₂CO₃). After the reaction was deemed complete the intermediate **A14** was worked up and purified by chromatography (Flash CC or HPLC) or used as the crude. Deprotection of intermediate **A14** in acidic media (TFA or HCl) at rt gave intermediate **A15**, which was used directly in the next alkylation step with 2-bromoacetamide and a suitable base (such as; DIEA, TEA or Cs₂CO₃). Intermediate **A16** obtained was then stirred with the secondary amine **A1** in a solvent (such as DMSO or DMSO-H₂O, H₂O, H₂O-ethanol mixtures) and at a temperature of 70 – 150 °C on, or until the reaction was considered complete. Workup and purification then gave the desired final compounds **A7**.

15

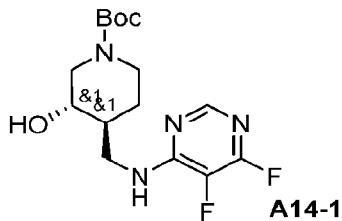
Example A7-77

Synthesis of *rac*-2-(((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide

a) DIEA, DMSO. b) TFA, DCM. c) DIEA, DMF, 2-bromoacetamide. d) DIEA, DMSO

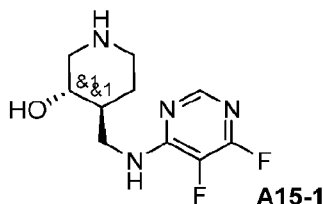
Scheme A7-77

10 *rac*-*tert*-Butyl (3*R*,4*R*)-4-(((5,6-difluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidine-1-carboxylate, **A14-1**



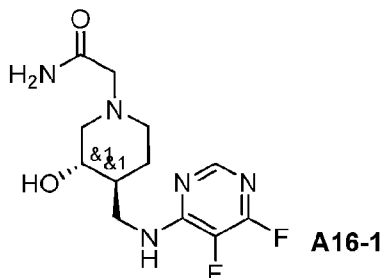
15 **A2** (367 μ L, 4.0 mmol) was dissolved in DMSO (17 mL) and DIEA (2.09 mL, 12.0 mmol) and **A4-1** (970 mg, 4.0 mmol) were added. The reaction mixture was stirred at rt on. The crude was poured into H₂O and extracted with EA (2x). The organic phase was washed with H₂O (2x) and brine. Then, the organic phase was dried over MgSO₄, filtered and concentrated to afford **A14-1** (1.38 g, 4.0 mmol).

LCMS: MS Calcd.: 344; MS Found: 345 ([M+H]⁺).

***rac*-(3*R*,4*R*)-4-(((5,6-Difluoropyrimidin-4-yl)amino)methyl)piperidin-3-ol, A15-1**

A14-1 (1.47 g, 4.27 mmol) was dissolved in DCM (8.5 mL) and TFA (3.3 mL, 43.1 mmol) was added. This mixture was stirred at rt for 3h. The solvents were evaporated under reduced pressure. Cyclohexane was twice added and evaporated. **A15-1** (1.04 g, 4.27mmol) was used without further purification.

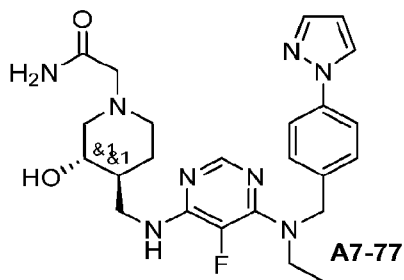
LCMS: MS Calcd.: 244; MS Found: 245 ([M+H]⁺).

***rac*-2-(((3*R*,4*R*)-4-(((5,6-Difluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, A16-1**

A15-1 (1.04 g, 4.27 mmol) was dissolved in DMF (56 mL), DIEA (4.5 mL, 25.77 mmol) was added and the mixture was stirred at rt for 30 min. Then 2-bromoacetamide (650 mg, 4.71 mmol) was added and the mixture was stirred on at rt. The solvent was evaporated under reduced pressure and the residue was dissolved in MeOH (10 mL) and passed through a 15g ionic-exchange SCX column. Additional 50 mL of MeOH were passed through the column, followed by 40 mL of a 3.5M solution of NH₃ in MeOH in order to release the product from the column. After evaporation of the solvents **A16-1** (981mg, 3.2 mmol) was obtained.

LCMS: MS Calcd.: 301; MS Found: 302 ([M+H]⁺).

***rac*-2-(((3*R*,4*R*)-4-(((6-((4-(1*H*-Pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, A7-77**



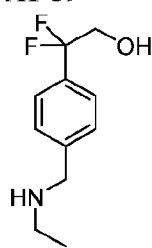
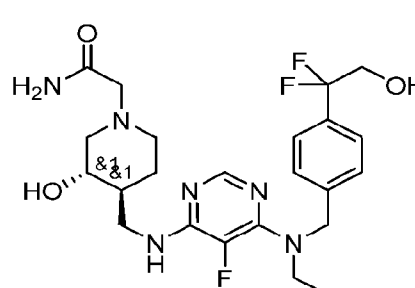
A16-1 (90 mg, 0.30 mmol) was dissolved in DMSO (0.8 mL) and DIEA (160 μ L, 0.92 mmol) and N-[(4-pyrazol-1-yl)phenyl]methylethanamine **A1-64** (63 mg, 0.31 mmol) were added. The reaction mixture was heated at 140°C for 3h. The crude was poured into H₂O and extracted with EA (2x). The organic phase was washed with H₂O (2x) and brine, dried and concentrated *in vacuo* to afford 115 mg of crude material. The crude residue was purified by flash CC (DCM:MeOH=100:0 to 90:10) to afford **A7-77** (53 mg, 0.11 mmol).

LCMS: MS Calcd.: 482; MS Found: 483 ([M+H]⁺).

The following compounds were synthesized according to General **Method 5A** using the shown starting materials (**Table 5A**).

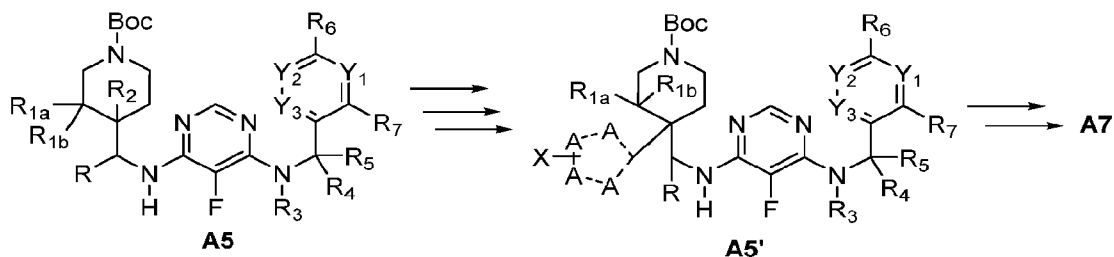
Table 5A:

A4	A1	A7
<p>A4-1</p> <p><i>rac</i>-tert-butyl (3<i>R</i>,4<i>R</i>)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate</p>	<p>A1-38</p> <p>4-((ethylamino)methyl)benzotrile</p>	<p>A7-78</p> <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

A4-1	<p>A1-39</p>  <p>2-(4-((ethylamino)methyl)phenyl)-2,2-difluoroethan-1-ol</p>	<p>A7-79</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethylamino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
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General Method 6A – Transformation of R₂ into a 5-membered heterocyclic ring.

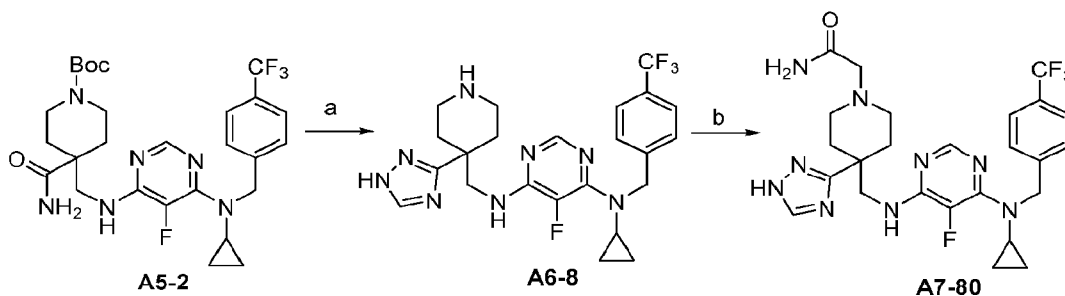
5



When the R₂ group in **A5** was either a carboxamide, cyano or ester the R₂ group has, in the examples described below, been transformed into a 5-membered heterocyclic ring. The compounds were thereafter transformed from **A5'** to the **A7** end products, employing the deprotection -alkylation procedure, as described in **General Method A**.

Example A7-80

15 **Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide, **A7-80****

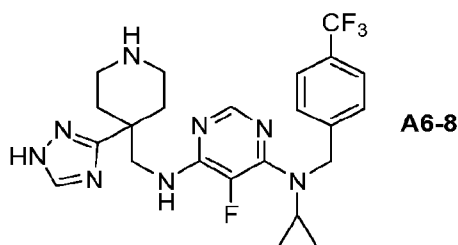


a) i) DMF-DMA ii) $\text{NH}_2\text{NH}_2 \cdot 2\text{HCl}$, NaOH, Dioxane iii) AcOH. b) i) HCl, dioxane.
ii) 2-Bromoacetamide, DIEA.

Scheme A7-80

5

N^4 -((4-(1*H*-1,2,4-Triazol-3-yl)piperidin-4-yl)methyl)- N^6 -cyclopropyl-5-fluoro- N^6 -(4-(trifluoromethyl)benzyl)pyrimidine-4,6-diamine, A6-8.

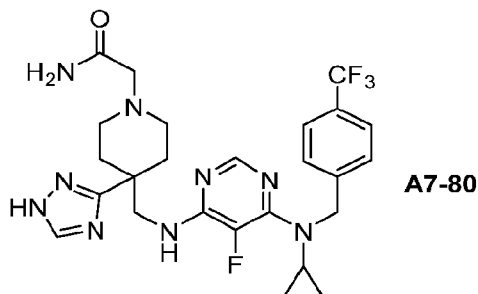


10

DMF-DMA (0.35 mL, 2.5 mmol) was added to the *tert*-butyl 4-carbamoyl-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-1-carboxylate **A5-2** (61 mg, 0.11 mmol) and the mixture was refluxed at 110°C for about 2 h. The volatiles were evaporated under reduced pressure to obtain the corresponding amidine intermediate. Hydrazine dihydrochloride (57 mg, 0.54 mmol) in 5 M NaOH aq solution (0.15 ml, 0.75 mmol) was added to a solution of this amidine intermediate in 1,4-dioxane (0.3 mL). Glacial AcOH (1.6 mL) was added and the reaction mixture was stirred for about 30 min at rt and then at 90°C for 5 h. Then, 0,8 ml of 4M HCl in dioxane were added to fully deprotect the Boc-group and the mixture was stirred for 1 h at rt. The work-up was done adding H₂O (20 mL) and washing with EA (20 mL). The aq phase was basified with 2N NaOH and extracted with DCM (2 x 20 mL). This organic phase was washed with brine (20 mL), dried (Na₂SO₄) and concentrated to afford **A6-8** (36 mg, 0.07mmol).

LCMS: MS Calcd.: 490.5; MS Found: 491 ([M+H]⁺).

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide, A7-80.



5

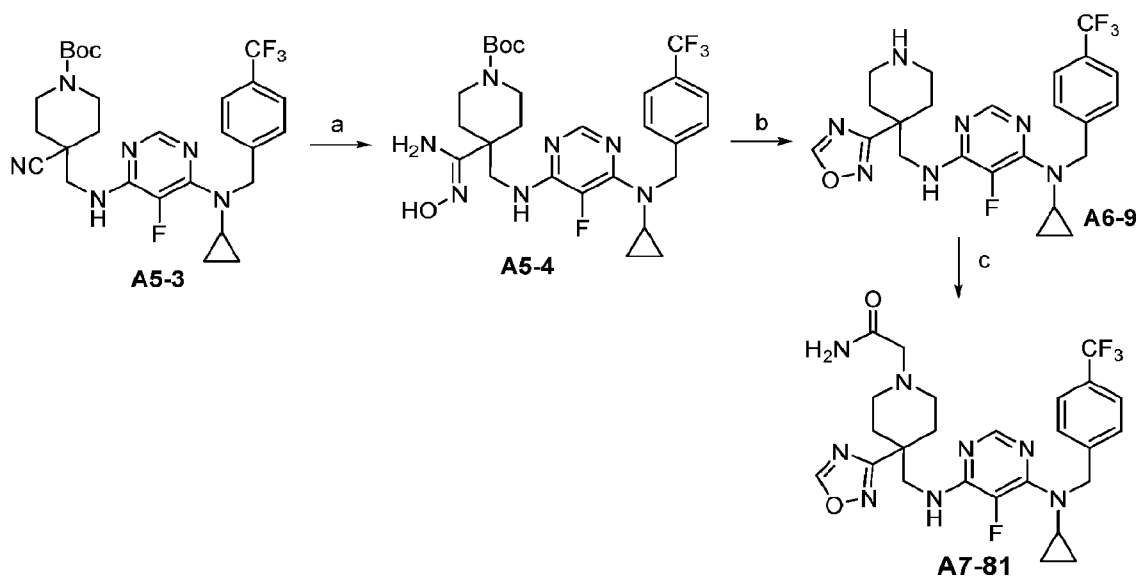
This compound was prepared by alkylation of **A6-8** with 2-bromoacetamide following the procedure described previously for the synthesis of example **A7-1**.

LCMS: MS Calcd.: 547.6; MS Found: 548 ($[M+H]^+$).

10

Example A7-81

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide

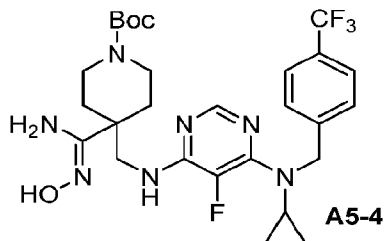


15

a) Hydroxylamine hydrochloride, NaHCO_3 , MeOH. b) i) $\text{CH}(\text{OEt})_3$, $\text{BF}_3 \cdot \text{Et}_2\text{O}$, ii) HCl /dioxane. c) 2-bromoacetamide, DIEA.

Scheme A7-81

***tert*-Butyl (*Z*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(*N'*-hydroxycarbamimidoyl)piperidine-1-carboxylate, **A5-4**.**



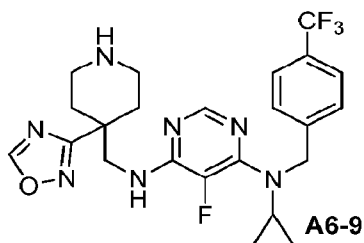
5

A suspension of *tert*-butyl 4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-1-carboxylate **A5-3** (50 mg, 0.09 mmol), hydroxylamine hydrochloride (26 mg, 0.37 mmol) and NaHCO₃ (38 mg, 0.45 mmol) in MeOH (0.5 mL) was heated to 75°C on to form the corresponding amidoxime intermediate. The work-up was done filtering the reaction with DCM and then the filtrate was washed with H₂O (20 mL) and brine (20 mL). The organic phase was dried (Na₂SO₄) and concentrated to afford **A5-4** (37 mg, 0.06 mmol).

LCMS: MS Calcd.: 581.6; MS Found: 582 ([M+H]⁺).

15

N*⁴-((4-(1,2,4-Oxadiazol-3-yl)piperidin-4-yl)methyl)-*N*⁶-cyclopropyl-5-fluoro-*N*⁶-(4-(trifluoromethyl)benzyl)pyrimidine-4,6-diamine, **A6-9*

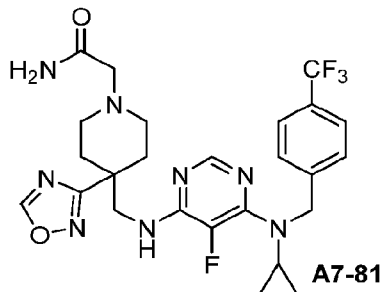


To a solution of **A5-4** (37 mg, 0.06 mmol) in triethylorthoformate (100 μL, 0.6 mmol) was added BF₃·Et₂O (5 μL, 0.04 mmol) under N₂ and the mixture was heated to 100°C for 90 min. Then, the reaction was concentrated to dryness and it was added 4N HCl in dioxane (0.5 ml) and the mixture was stirred for 1 hour at rt. After this period, the reaction was concentrated again and the corresponding oxadiazole intermediate was used directly in the next synthesis step.

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LCMS: MS Calcd.: 491.5; MS Found: 492([M+H]⁺).

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide, A7-81



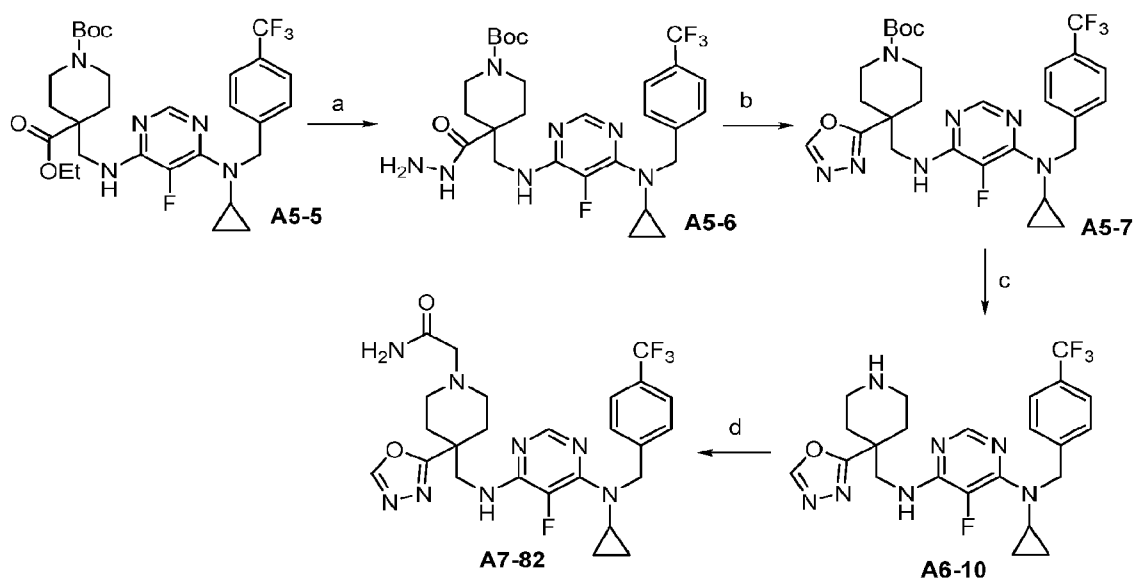
5 This compound was prepared by alkylation of **A6-9** with 2-bromoacetamide following the procedure described previously for the synthesis of example **A7-1**.

LCMS: MS Calcd.: 548.5; MS Found: 549([M+H]⁺).

Example A7-82

10

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide, A7-82

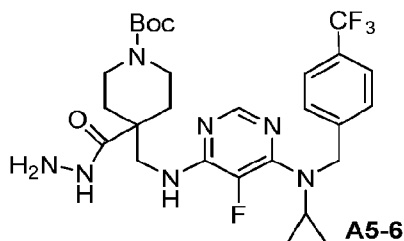


15

a) Hydrazine hydrate, EtOH. b) CH(OMe)₃. c) TFA, DCM. d) DIEA, 2-bromoacetamide.

Scheme A7-82

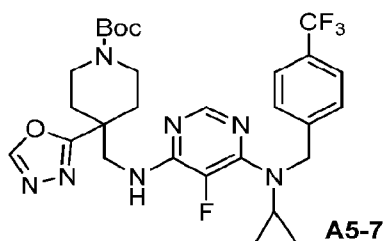
***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydrazinecarbonyl)piperidine-1-carboxylate, A5-6**



The mixture of 1-(*tert*-butyl) 4-ethyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-1,4-dicarboxylate **A5-5** (356 mg, 0.60 mmol) and hydrazine hydrate (0.6 ml, 10 mmol) in EtOH (1 mL) was heated to 120°C for 18 h in the microwave. The solvent was evaporated and Et₂O (30 mL) was added, washing with aq 2N NaOH (30 mL) and brine (30 mL). The organic phase was dried (Na₂SO₄) and concentrated to afford **A5-6** (258 mg, 0.11 mmol).

LCMS: MS Calcd.: 581.6; MS Found: 582 ([M+H]⁺).

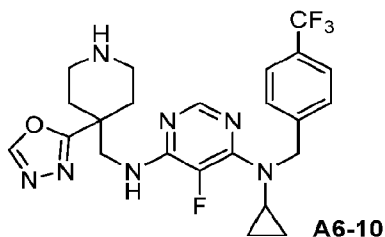
***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidine-1-carboxylate, A5-7**



The mixture of **A5-6** (258 mg, 0.11 mmol) and CH(OMe)₃ (0.24 mL, 2.2 mmol) was heated to 125°C in a sealed tube on. Then, EA (30 mL) was added and the organic phase was washed with aq sat. NaHCO₃ (30 mL), H₂O (30 mL) and brine (30 mL). After drying (Na₂SO₄) and evaporation, a crude of 217 mg was obtained. This crude was purified by flash CC (Hex:EA=100:0 to 50:50). Collection of the fractions containing the product yielded **A5-7** (9 mg, 0.015 mmol).

LCMS: MS Calcd.: 591.6; MS Found: 592 ([M+H]⁺).

***N*⁴-(((4-(1,3,4-oxadiazol-2-yl)piperidin-4-yl)methyl)-*N*⁶-cyclopropyl-5-fluoro-*N*⁶-(4-(trifluoromethyl)benzyl)pyrimidine-4,6-diamine, A6-10**



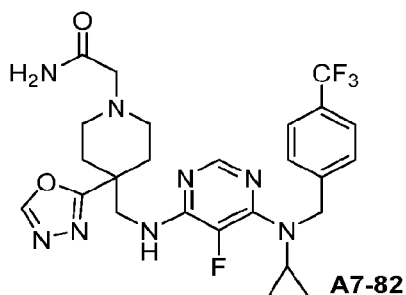
5

A5-7 (9 mg, 0.015 mmol) was dissolved in DCM (50 μ L) and TFA (12 μ L) was added and the mixture was stirred at rt for 3 h. Then, the reaction was concentrated to dryness to afford **A6-10**.

LCMS: MS Calcd.: 491.5; MS Found: 492([M+H]⁺).

10

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide, A7-82



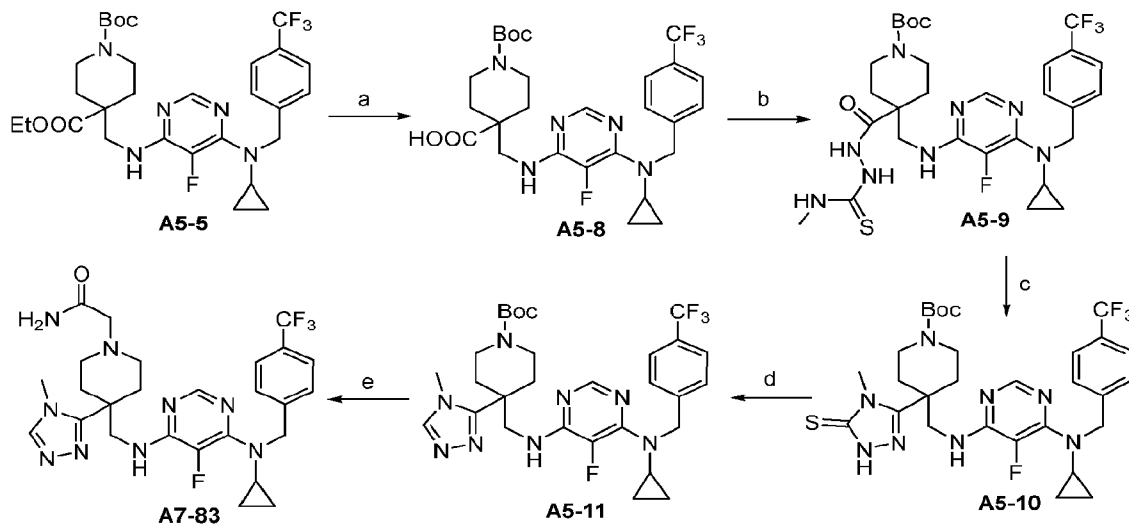
This compound was prepared by alkylation of the above intermediate with 2-bromoacetamide following the procedure described previously for the synthesis of example **A7-1**.

LCMS: MS Calcd.: 548.5; MS Found: 549([M+H]⁺).

Example A7-83

20

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide, A7-83

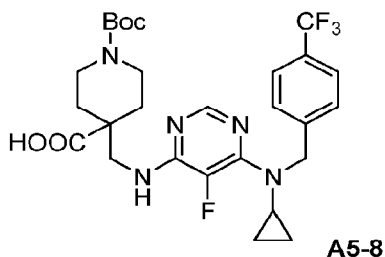


a) i) NaOH, EtOH. ii) EDC.HCl, HOBt, *N*-methylhydrazinecarbothioamide, DCM. iii) NaOH, EtOH. iv) H₂O₂, DCM. b) i) TFA, DCM, ii) DIEA, 2-bromoacetamide.

5

Scheme A7-83

1-(*tert*-Butoxycarbonyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylic acid, A5-8

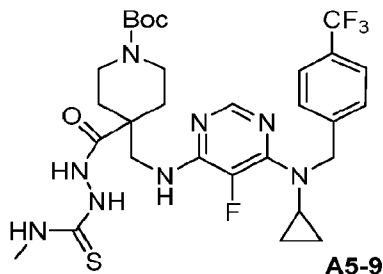


A5-8

10 2N NaOH (1.6 mL, 3.2 mmol) was added to a solution of **A5-5** (181 mg, 0.30 mmol) in EtOH (3 mL). The reaction mixture was stirred at rt for 3 h. The organic solvent was removed, H₂O was added and the solution was acidified with 2N HCl until pH 3. The product was extracted with DCM (x3). The combined organic layer was washed with H₂O, dried (phase separator cartridge) and concentrated *in vacuo*. **A5-8** was obtained (168 mg, 0.29 mmol) as a
15 white solid.

LCMS: MS Calcd.: 567.6; MS Found: 568 ([M+H]⁺).

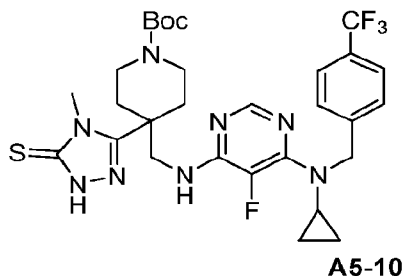
***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(2-(methylcarbamothioyl)hydrazine-1-carbonyl)piperidine-1-carboxylate, A5-9**



5 EDC.HCl (85 mg, 0.44 mmol), HOBt (60 mg, 0.44 mmol) and *N*-methylhydrazinecarbothioamide (47 mg, 0.45 mmol) were added to a solution of **A5-8** (168 mg, 0.29 mmol) in DCM (5 mL) and the reaction mixture was stirred at rt for 4 h. Additional *N*-methylhydrazinecarbothioamide (47 mg, 0.45 mmol) was added and the reaction mixture was stirred at rt for 2 days. The mixture was diluted with DCM and the organic layer was washed with H₂O, dried (phase separator cartridge) and the solvent was removed *in vacuo*. The residue was then purified by flash CC (MeOH:DCM=1:9) to yield **A5-9** (121 mg, 0.18 mmol) as a solid.

LCMS: MS Calcd.: 654.7; MS Found: 655 ([M+H]⁺).

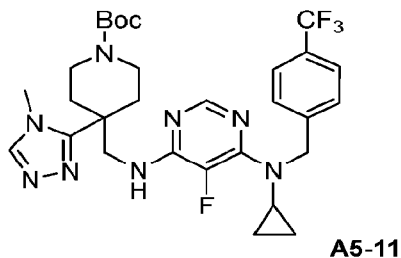
15 ***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-5-thioxo-4,5-dihydro-1*H*-1,2,4-triazol-3-yl)piperidine-1-carboxylate, A5-10**



A5-9 (114 mg, 0.17 mmol) was dissolved in EtOH (1.8 mL) and 8N NaOH (0.55 mL, 4.4 mmol) was added. The reaction mixture was stirred on at 80°C. H₂O was added to the reaction mixture and 2N HCl was added until pH was 4. The product was extracted with DCM (x3), the combined organic layer was washed with H₂O and brine, dried (phase separator cartridge) and the solvent was removed *in vacuo*. The product **A5-10** (98 mg, 0.15 mmol) was used for next reaction without further purification.

LCMS: MS Calcd.: 636.7; MS Found: 637 ($[M+H]^+$).

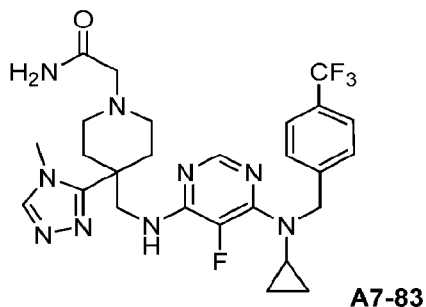
***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidine-1-carboxylate, A5-11**



A 35% solution of H₂O₂ (50 μ L, 64 μ mol) in AcOH (280 μ L) was added to an ice-cooled solution of **A5-10** in DCM (1.5 mL) and the reaction mixture was stirred at rt for 1 h. The solvent was removed *in vacuo*, the crude was diluted with H₂O and 2N NaOH was added until pH 12. The product was extracted with DCM (x3), the combined organic layer was washed with H₂O, dried (phase separator cartridge) and the solvent was removed *in vacuo*. The residue was then purified by flash CC (MeOH:DCM=1:9) to yield **A5-11** (39 mg, 64 μ mol) as a solid.

LCMS: MS Calcd.: 604.6; MS Found: 605 ($[M+H]^+$).

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide, A7-83

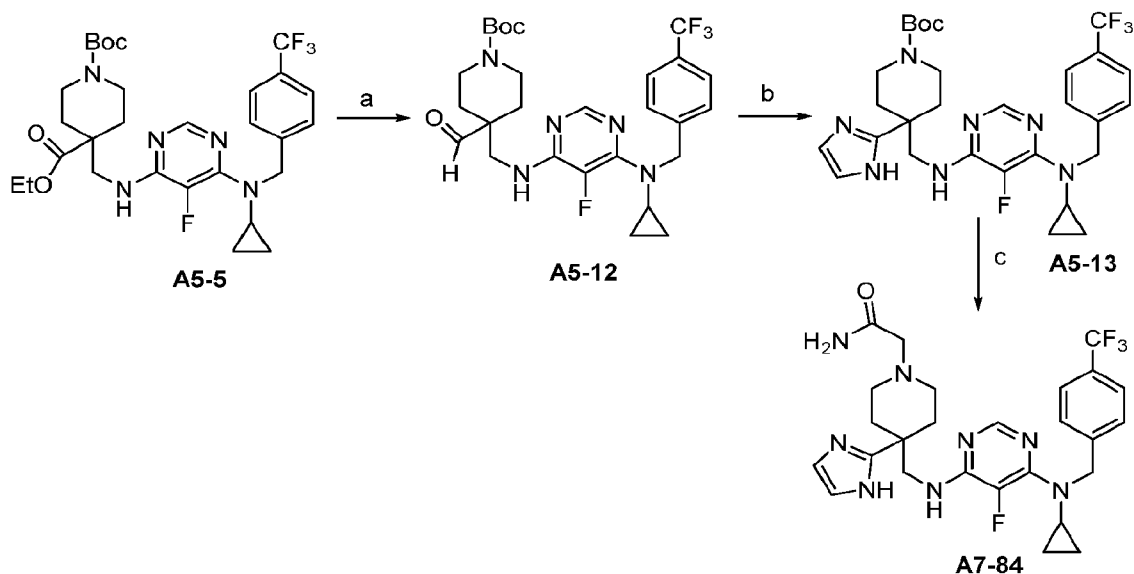


This compound was prepared first by Boc-deprotection and then by alkylation with 2-bromoacetamide following the procedure described previously for the synthesis of example **A7-1**.

LCMS: MS Calcd.: 561.6; MS Found: 562 ($[M+H]^+$).

Example A7-84

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide, A7-84

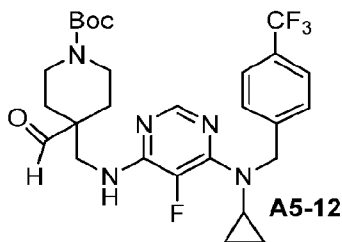


a) LiAlH₄, THF. b) Glyoxal, NH₄OH, MeOH. c) i) TFA, DCM, ii) DIEA, 2-bromoacetamide

10

Scheme A7-84

tert-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-formylpiperidine-1-carboxylate, A5-12



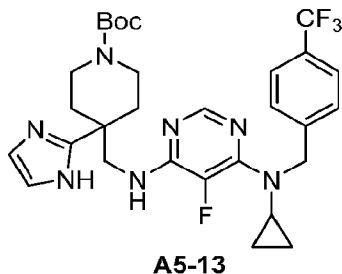
15

1M LiAlH₄ in THF (1.1 mL, 1.1 mmol) was added dropwise to a suspension of A5-5 (520 mg, 0.87 mmol) in THF (8 mL) at -78°C. The reaction mixture was stirred at this temperature for 2 h and then it was quenched by the addition of H₂O (0.15 mL), 2N NaOH (0.75 mL) and H₂O (2.25 mL). The suspension was filtered through Celite® and the solvent

was removed *in vacuo*. The residue was purified by flash CC (Hex:EA=100:0 to 0:100) to yield **A5-12** (340 mg, 0.61 mmol) as a solid.

LCMS: MS Calcd.: 551.6; MS Found: 552 ([M+H]⁺).

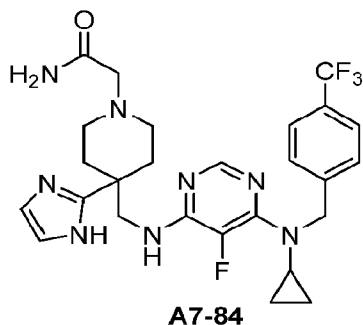
5 ***tert*-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-imidazol-2-yl)piperidine-1-carboxylate, A5-13**



Glyoxal monohydrate (213 mg, 2.79 mmol) was added to a solution of **A5-12** (141 mg, 0.26 mmol) in MeOH (7.5 mL) and 32% w/w NH₄OH (3.75 mL, 63 mmol). The reaction mixture was stirred at rt for 3 h. Additional amount of 32% w/w NH₄OH (2 mL, 34 mmol) and glyoxal monohydrate (150 mg, 2 mmol) were added and the mixture was stirred at rt for 2 days. The solvent was removed *in vacuo*, H₂O was added and the product was extracted with EA (x3), the combined organic layer was washed with brine, dried (MgSO₄), filtered and concentrated. The residue was purified by flash CC (Hex:EA=100:0 to 0:100) to yield **A5-13** (25 mg, 0.04 mmol) as a solid.

LCMS: MS Calcd.: 589.6; MS Found: 590 ([M+H]⁺).

20 **2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-imidazol-2-yl)piperidin-1-yl)acetamide, A7-84.**



This compound was prepared first by Boc-deprotection and then by alkylation with 2-bromoacetamide following the procedure described previously for the synthesis of example A7-1.

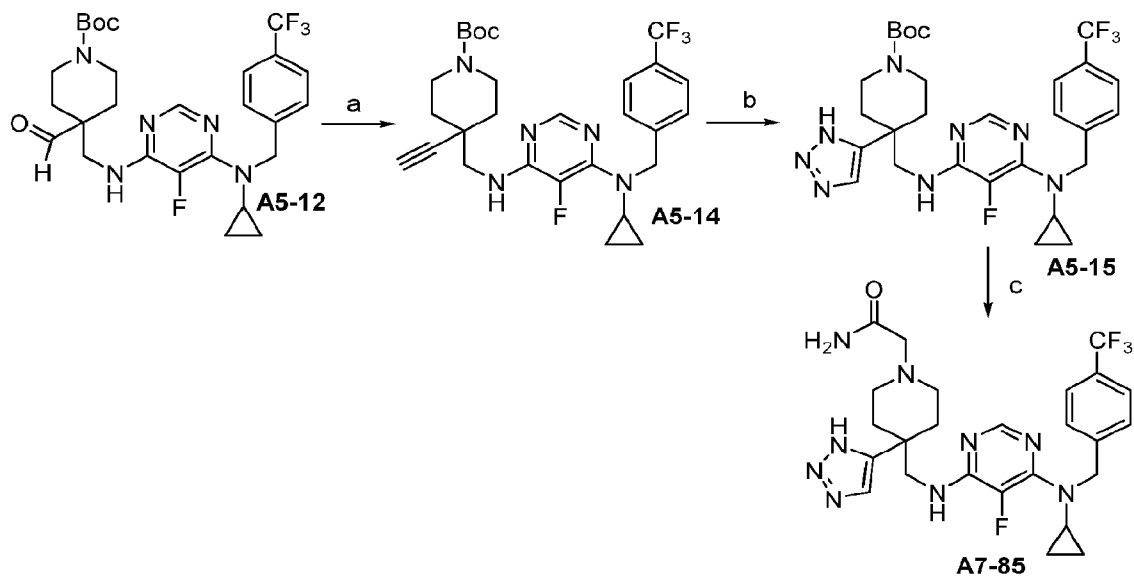
LCMS: MS Calcd.: 546.6; MS Found: 547([M+H]⁺).

5

Example A7-85

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide, A7-85

10

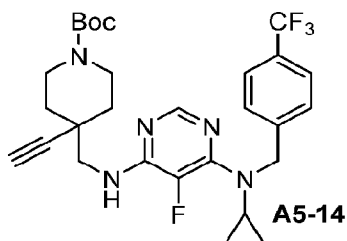


a) Dimethyl (1-diazo-2-oxopropyl)phosphonate, K₂CO₃, MeOH. b) CuI, azidotrimethylsilane, DMF. c) i) TFA, DCM, ii) DIEA, 2-bromoacetamide

15

Scheme A7-85

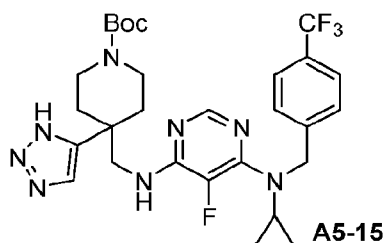
tert-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-ethynylpiperidine-1-carboxylate, A5-14



K₂CO₃ (66 mg, 0.48 mmol) was added to an ice-cooled solution of **A5-12** (100 mg, 0.18 mmol) and dimethyl (1-diazo-2-oxopropyl)phosphonate (36 μL, 0.239 mmol) in MeOH (2 mL) and the reaction mixture was stirred on at rt. The mixture was diluted with H₂O and the product was extracted with EA (x3), the combined organic layer was washed with brine, dried (MgSO₄), filtered and concentrated. The residue was purified by flash CC (Hex:EA=100:0 to 0:100) to yield **A5-14** (78 mg, 0.14 mmol) as a solid.

LCMS: MS Calcd.: 547.6; MS Found: 548 ([M+H]⁺).

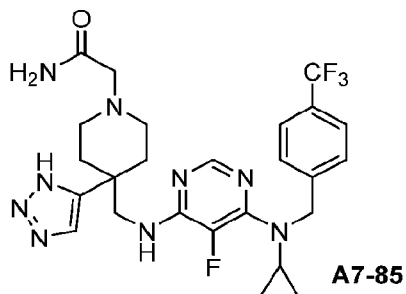
tert-Butyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-1,2,3-triazol-5-yl)piperidine-1-carboxylate, A5-15



Under an N₂ atmosphere CuI (1.1 mg, 5.8 μmol) was added to a solution of **A5-14** (75 mg, 0.14 mmol) in DMF (1 mL) and MeOH(0.11 mL). Then azidotrimethylsilane (28 μL, 0.21 mmol) was added and the reaction mixture was stirred on at 100°C. Additional azidotrimethylsilane (15 μL, 0.11 mmol) was added and the reaction mixture was heated on at 100°C. The mixture was diluted with EA and the organic layer was washed with H₂O and brine, dried (MgSO₄), filtered and concentrated. The residue was purified by flash CC (MeOH:DCM=1:9) to yield **A5-15** (18 mg, 0.03 mmol) as a white solid.

LCMS: MS Calcd.: 590.6; MS Found: 591 ([M+H]⁺).

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1H-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide, A7-85



This compound was prepared first by Boc-deprotection and then by alkylation with 2-bromoacetamide following the procedure described previously for the synthesis of example **A7-1**.

LCMS: MS Calcd.: 547.6; MS Found: 548([M+H]⁺).

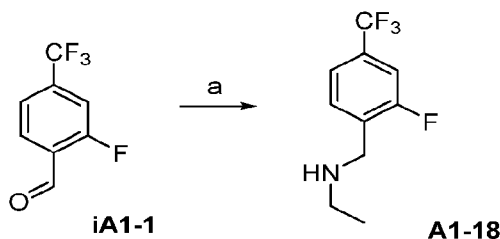
5

Synthesis of benzylic amines **A1**

The **A1** building blocks were either commercially available or were synthesized by reductive amination in as outlined below.

10

Synthesis of *N*-(2-fluoro-4-(trifluoromethyl)benzyl)ethanamine, **A1-18**



a) EtNH_2 , MgSO_4 , NaBH_4 , DCM

Scheme **A1-18**

15

Dry MgSO_4 (375 mg, 3.12 mmol) was added to a solution of compound 2-fluoro-4-(trifluoromethyl)benzaldehyde **iA1-1** (200 mg, 1.04 mmol) and EtNH_2 (0.52 mL, 1.04 mmol) in DCM (8 mL). The mixture was stirred at rt for 2 h and then NaBH_4 (119 mg, 3.12 mmol) was added to the mixture, and the reaction stirred on. The reaction was filtered, and the filtrate was concentrated *in vacuo* to give crude **A1-18** (267 mg, 1.04 mmol) as a colorless oil. The crude **A1-18** was used without further purification.

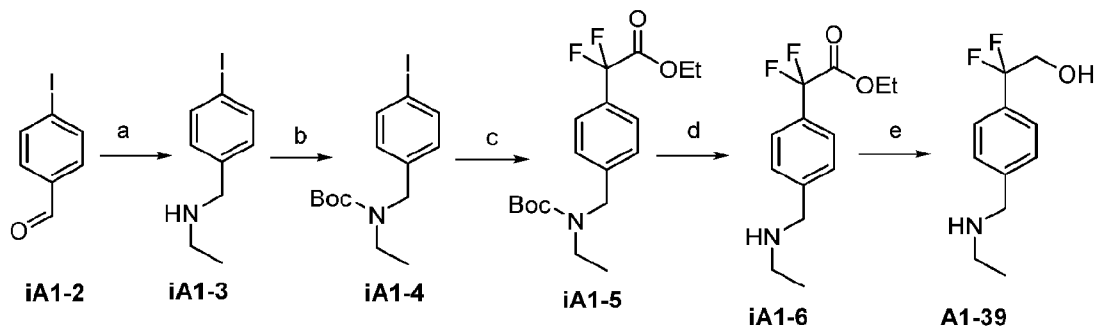
20

LCMS: MS Calcd.: 221; MS Found: 222 ([M+H]⁺).

A1-34 and **A1-65** were prepared by reductive amination from the corresponding alkylamine and 4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzaldehyde. This aldehyde was prepared as described in Michael et al PCT Int.Appl., 2013011033, Jan 2013.

25

Synthesis of 2-(4-((ethylamino)methyl)phenyl)-2,2-difluoroethan-1-ol, **A1-39**

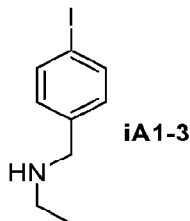


a) EtNH₂, NaBH₃CN, AcOH, MeOH. b) Boc₂O, TEA, MeOH. c) Ethyl 2-bromo-2,2-difluoroacetate, Cu, DMSO. d) TFA, DCM. e) LiAlH₄, THF.

Scheme A1-39

5

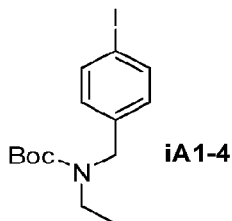
N-(4-Iodobenzyl)ethanamine, iA1-3



4-Iodobenzaldehyde **iA1-2** (2 g, 8.6 mmol) was dissolved in MeOH (90 mL) and
 10 EtNH₂ (4.8 mL, 2M in MeOH), AcOH (0.5 mL, 8.7 mmol) and NaBH₃CN (650 mg, 10.3
 mmol) were added. The reaction mixture was stirred at rt on. Thereafter HCl (10 ml, 2M) was
 added dropwise and when the bubbling had ceased, H₂O was added and the MeOH was
 evaporated under reduced pressure. The aq residue was extracted with DCM (x2). The pH of
 the aq phase was made basic with 2N NaOH and extracted with DCM (3x). The organic phase
 15 from the basic extraction was dried (MgSO₄) filtered and concentrated to afford **iA1-3** (980
 mg, 3.75mmol).

LCMS: MS Calcd.: 261; MS Found: 262 ([M+H]⁺).

tert-Butyl ethyl(4-iodobenzyl)carbamate, iA1-4

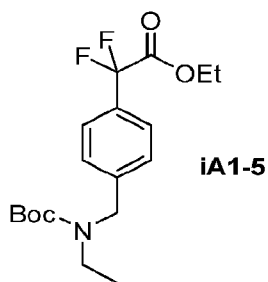


20

iA1-3 (980 mg, 3.75 mmol) was suspended in MeOH (30 mL) and TEA (1.0 mL, 7.2 mmol) was added, followed by Boc_2O (1 g, 4.6 mmol). This mixture was stirred at rt for 18h. Then the solvent was evaporated under reduced pressure. The residue was re-dissolved in DCM and washed with H_2O (x3) and brine (x1), dried (MgSO_4) and concentrated *in vacuo* to afford **iA1-4** (1.16 g, 3.2 mmol).

LCMS: MS Calcd.: 361; MS Found: 362 ($[\text{M}+\text{H}]^+$).

10 **Ethyl 2-(4-(((tert-butoxycarbonyl)(ethyl)amino)methyl)phenyl)-2,2-difluoroacetate, iA1-5**

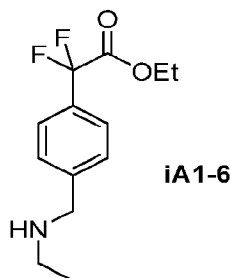


iA1-4 (400 mg, 1.1 mmol), ethyl 2-bromo-2,2-difluoroacetate (0.3 mL, 2.3 mmol) and Cu (250 mg, 3.9 mmol) were suspended in DMSO (8 mL) in a sealed tube and heated on to 60°C. The reaction was poured onto a saturated solution of NH_4Cl (100 mL) and H_2O (50 mL) was added. This aq phase was extracted with EA (x3) and the combined EA phase was dried (MgSO_4) and concentrated *in vacuo*. The residue (650 mg) was purified by Flash CC (Hex:EA=100:0 to 90:10) to afford **iA1-5** (365 mg, 1.0mmol).

LCMS: MS Calcd.: 357; MS Found: 358 ($[\text{M}+\text{H}]^+$).

20

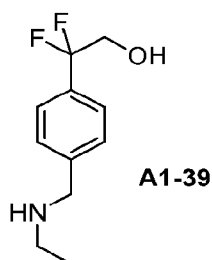
Ethyl 2-(4-((ethylamino)methyl)phenyl)-2,2-difluoroacetate, iA1-6



iA1-5 (365 mg, 1.0 mmol) was dissolved in DCM (10 mL) and then TFA (2 mL, 26.1 mmol) was added. The reaction mixture was stirred at rt for a couple of hours and then concentrated *in vacuo*. The residue was suspended in H₂O and made basic by adding Na₂CO₃ in portions and then the aq phase was extracted with Et₂O (x2). This combined organic phase was washed with H₂O (x1), dried with MgSO₄ and concentrated *in vacuo* to afford **iA1-6** (136 mg, 0.53mmol).

LCMS: MS Calcd.: 257; MS Found: 258 ([M+H]⁺).

2-(4-((Ethylamino)methyl)phenyl)-2,2-difluoroethan-1-ol, **A1-39**



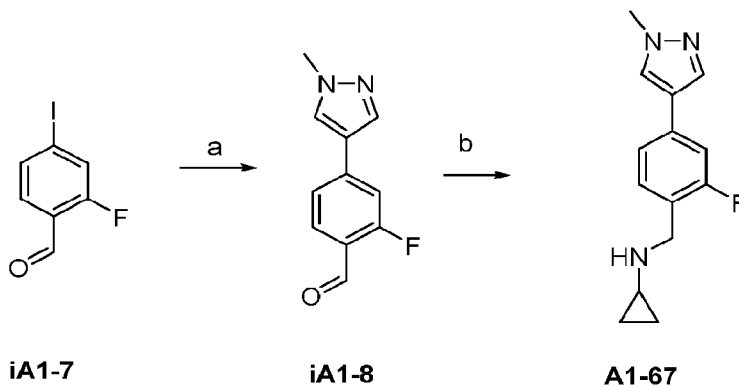
10

A suspension of LiAlH₄ (80 mg, 2.1 mmol) in THF (4 ml) was cooled with an ice bath and then a solution of **iA1-6** (136 mg, 0.53mmol) in THF (2 mL) was added dropwise. The reaction mixture was allowed to reach rt and was stirred for another 2h. To this mixture the following were dropwise and in turn added; H₂O (0.2 mL), NaOH (2N, 0.2 mL) and finally, H₂O (0.6 mL). After filtration through Celite®, the filtrate was dried (MgSO₄), filtered and concentrated *in vacuo* to afford **A1-39** (92 mg, 0.43mmol).

LCMS: MS Calcd.: 215; MS Found: 216 ([M+H]⁺).

20

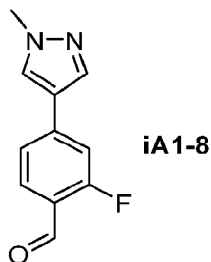
Synthesis of *N*-(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)cyclopropanamine, **A1-67**:



a) 1-Methyl-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1*H*-pyrazole, PdCl₂dppf, DCM, NaHCO₃, dioxane. b) Cyclopropanamine, NaBH₄, MeOH.

Scheme A1-67

5 **2-Fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzaldehyde, iA1-8**

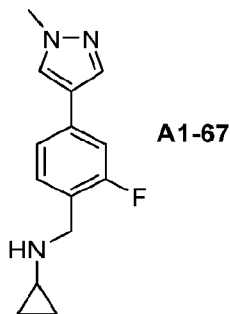


2-Fluoro-4-iodobenzaldehyde **iA1-7** (1.05 g, 4.20 mmol) and 1-methyl-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1*H*-pyrazole (1.75 g, 8.41 mmol) were dissolved in 1,4-dioxane (12 mL) and NaHCO₃ (6.3 mL, 13 mmol, 2M) was added. N₂ was bubbled through the solution and then PdCl₂dppf.DCM was added. The reaction mixture was heated at 80°C in a sealed tube on. The reaction mixture cooled was filtered through Celite®, washed with EA and the solvent was removed *in vacuo*. The residue was purified by Flash CC (Hex:Et₂O) to afford **iA1-8** (826 mg, 4.05 mmol).

LCMS: MS Calcd.: 204; MS Found: 205 ([M+H]⁺).

15

N-(2-Fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)cyclopropanamine, A1-67



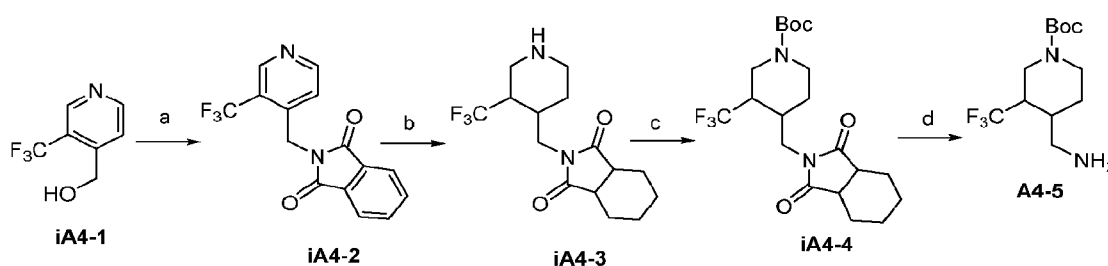
Cyclopropanamine (310 μL, 4.47 mmol) was added to solution of **iA1-8** (826 mg, 4.05 mmol) in MeOH (30 mL). The reaction mixture was heated to reflux on, cooled to 0°C and then NaBH₄ (306 mg, 8.09 mmol) was added and then stirred at rt for 4h. The solvent was removed *in vacuo*, H₂O was added, and the product was extracted with DCM. The combined organic phase was washed with H₂O, brine, dried through a phase separator cartridge and concentrated to afford **A1-67** (806mg, 3.29mmol).

LCMS: MS Calcd.: 245; MS Found: 256 ($[M+H]^+$).

Synthesis of Boc-protected piperidines, A4:

The A4 building blocks were either commercially available or synthesized as outlined below.

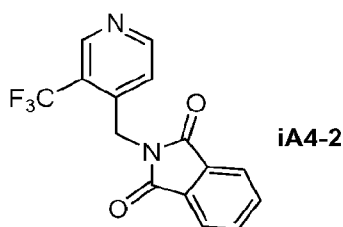
Synthesis of *tert*-butyl 4-(aminomethyl)-3-(trifluoromethyl)piperidine-1-carboxylate, A4-5



a) Phthalimide, DCM, Ph_3P , DIAD. b) PtO_2 , H_2 , AcOH. c) TEA, DCM, Boc_2O . d) Hydrazine, EtOH.

Scheme A4-5

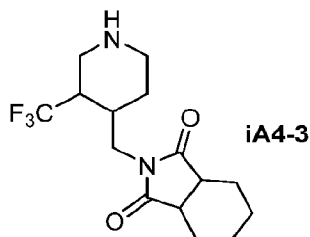
2-((3-(Trifluoromethyl)pyridin-4-yl)methyl)isoindoline-1,3-dione, iA4-2



Under stirring and at 0 °C DIAD (1.20 g, 5.97 mmol) was added to a solution of (3-(trifluoromethyl)pyridin-4-yl)methanol (iA4-1) (0.70 g, 3.98 mmol), phthalimide (0.70 g, 4.77 mmol) and Ph_3P (1.56 g, 5.97 mmol) in DCM (50 mL). Thereafter the reaction was stirred at rt for 4h before quenching with H_2O . The resulting mixture was extracted with DCM (2 x 50 mL), and the combined and organic phases were dried (Na_2SO_4), concentrated, and the residue was purified by Flash CC (EA:PE=1:5) to yield crude iA4-2 (1.2 g) as a white solid, that contained Phthalimide. This crude material was used without further purification.

LCMS: MS Calcd.: 306; MS Found: 307 ($[M+1]^+$).

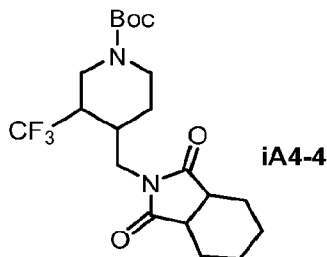
2-((3-(Trifluoromethyl)piperidin-4-yl)methyl)hexahydro-1H-isoindole-1,3(2H)-dione, iA4-3



5 At rt PtO₂ (0.2 g) was added to a solution of **iA4-2** (1.2 g, 3.9 mmol) in AcOH (5 mL) and the reaction was stirred at 50 °C for 2 days under H₂ (60 psi). Thereafter the pH was adjusted to 8-9 with NH₄OH at 0 °C. The resulting mixture was extracted with EA (2 x 100 mL), and the combined organic phases were washed with brine (10 mL), dried (Na₂SO₄), and finally concentrated to yield **iA4-3** (1.4 g) as a yellow oil, that was used without further
10 purification.

LCMS: MS Calcd.: 318; MS Found: 319 ([M+1]⁺).

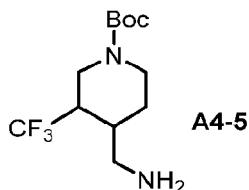
***tert*-Butyl 4-((1,3-dioxooctahydro-2H-isoindol-2-yl)methyl)-3-(trifluoromethyl)piperidine-1-carboxylate (iA4-4)**



15 At rt Boc₂O (1.02 g, 4.68 mmol) was added to a solution of **iA4-3** (1.4 g, 3.9 mmol) and TEA (0.78 g, 7.8 mmol) in DCM (20 mL). The reaction was stirred at rt for 2 and then H₂O was added. The resulting mixture was extracted with DCM (2 x 50 mL), and the combined organic phases were dried (Na₂SO₄) and concentrated to yield **iA4-4** (1.7 g) as a yellow oil.
20 This material was used without further purification.

LCMS: MS Calcd.: 418; MS Found: 363 ([M+1-56]⁺).

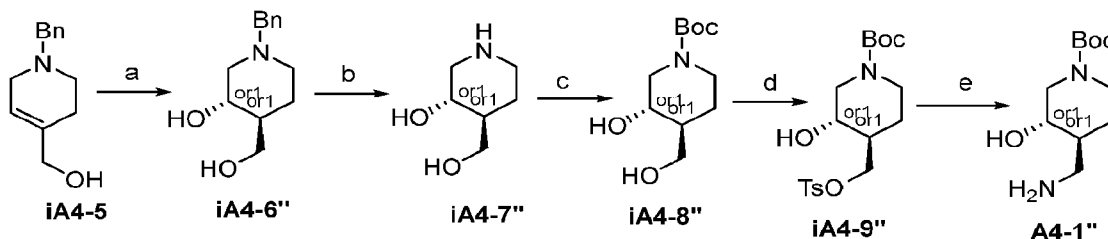
***tert*-Butyl 4-(aminomethyl)-3-(trifluoromethyl)piperidine-1-carboxylate (A4-5)**



At rt hydrazine hydrate (85%, 6 mL) was added to a solution of **iA4-4** (crude 1.4 g, 3.9 mmol) in EtOH (10 mL). The reaction was heated to 80 °C for 3 h and then H₂O (10 mL) was added. The EtOH was evaporated, and the resulting mixture was extracted with EA (2 x 50 mL). The combined organic phases were dried (Na₂SO₄) and concentrated to afford **A4-5** (0.9 g) as a brown oil, that was used without further purification.

LCMS: MS Calcd.: 282; MS Found: 227 ([M+1-56]⁺).

Synthesis of enantiomerically enriched *rel*-*tert*-butyl (3*R*,4*R*)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate, **A4-1''**

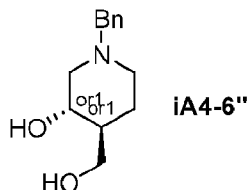


a) (+)-alpine boramine TMEDA complex, BF₃·Et₂O, Et₂O/THF then H₂O₂, NaOH. b) Pd/C, HCO₂NH₄, MeOH. c) Boc₂O, DCM/MeOH. d) TsCl, pyridine. e) NH₃.

Scheme A4-1''

15

rel*-(3*R*,4*R*)-1-Benzyl-4-(hydroxymethyl)piperidin-3-ol, **iA4-6''*



Under an inert atmosphere (Ar) and at rt BF₃·Et₂O (12 mL, 97.2 mmol) was added dropwise to a stirred solution of (+)-alpine boramine TMEDA complex (20.28 g, 48.7 mmol) in a mix of dry Et₂O (150 mL) and dry THF (32 mL). After 2h and 15min a solution of **iA4-5** (7.6 g, 37.0 mmol) in THF (32 mL) was added dropwise to the white suspension over ca. 15 min and the reaction was stirred at rt for 2,5 h and then to 55°C on. The reaction was cooled on an ice bath and then H₂O (7.6 mL) was added dropwise, followed by NaOH (5M, 12 mL) and

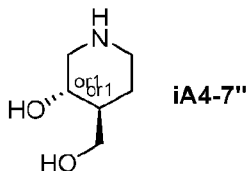
aq H₂O₂ solution (35%, 19,2 mL) and finally aq NaOH (50%, 48 mL). The mixture was then heated to reflux (oil bath 60°C) for 4h and then cooled to rt. An aq solution of K₂CO₃ (sat, 80 mL) was added and the mixture was extracted with EA (3 x 400 mL). The combined organic phase was dried and concentrated *in vacuo* to give an oil (26 g). The crude material was dissolved in EA (220 mL) and extracted with HCl (5M, 2 x 110 mL). The combined acidic aq layer was washed with EA (200 mL), cooled on an ice bath and then solid K₂CO₃ (ca. 101 g) was added in portions until the pH of the aq phase remained strongly basic. The basic aq phase was thereafter extracted with EA (4 x 200 mL) and the combined EA phase was dried and concentrated *in vacuo* to give **iA4-6''** (8.08 g, 36mmol).

10 MS Calcd.: 221; MS Found: 222 ([M+H]⁺).

¹H NMR (400 MHz, Chloroform-*d*) δ 1.16 – 1.31 (m, 1H), 1.42 – 1.61 (m, 2H), 1.79 – 1.88 (m, 1H), 1.90 – 1.99 (m, 1H), 2.79 (dd, J = 9.4, 1.8 Hz, 1H), 2.91 – 3.00 (m, 1H), 3.46 (d, J = 13.0 Hz, 1H), 3.52 (d, J = 13.0 Hz, 1H), 3.59 – 3.74 (m, 3H), 7.17 – 7.34 (m, 5H).

HPLC analysis (Chiralpak ID, gradient: 1 -45% iIPA (+0.2% DEA) in CO₂ over 17 min) showed an 88:12 mixture of enantiomers (76% ee)

***rel*-(3*R*,4*R*)-4-(Hydroxymethyl)piperidin-3-ol, iA4-7''**

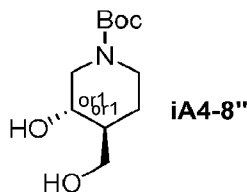


20 Ammonium formate (6.91 g, 109.6 mmol) and Pd/C (10%, 0.711 g, 0.67 mmol) were added to a solution of the **iA4-6''** (8.08 g, 36.5 mmol) in MeOH (110 mL) and the reaction was stirred and heated to reflux (oil bath temp 80°C). Further portions of Pd/C (10%, 0.711 g, 0.67 mmol) were added after 30 min and again after 60 min. After 3.5 h the reaction mixture was cooled and filtered through Celite®. The filtercake was washed with MeOH and the filtrate and washings were combined and concentrated under reduced pressure to give **iA4-7''** (4.70 g, 35.8 mmol).

MS Calcd.: 131; MS Found: 132 ([M+H]⁺).

¹H NMR (400 MHz, DMSO-*d*₆) δ 0.98 – 1.13 (m, 1H), 1.20 – 1.33 (m, 1H), 1.59 – 1.69 (m, 1H), 2.07 – 2.18 (m, 1H), 2.24 – 2.36 (m, 1H), 2.80 (d, J = 12.0 Hz, 1H), 2.90 (dd, J = 11.5, 4.5 Hz, 1H), 3.11 (d, J = 4.1 Hz, 1H), 3.25 – 3.36 (m, 1H), 3.59 (dd, J = 10.2, 4.1 Hz, 1H), 4.32 (br s, 1H), 4.49 (br s, 1H).

rel-tert-Butyl (3R,4R)-3-hydroxy-4-(hydroxymethyl)piperidine-1-carboxylate,
iA4-8''

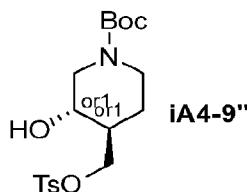


5 A solution of Boc₂O (7.82 g, 35.8 mmol) in DCM (20 mL) was added dropwise to a stirred, cooled (ice bath) solution of iA4-7'' (4.70 g, 35.8 mmol) in a mix of DCM (30 mL) and MeOH (12 mL). After stirring on, the mixture was concentrated and the residue was purified by Flash CC (MeOH:DCM=0:100-5:95) to yield iA4-8'' (7.96 g) as a colorless oil.

MS Calcd.: 231; MS Found: 232 ([M+H]⁺).

10 ¹H NMR (400 MHz, Chloroform-*d*) δ 1.07 – 1.21 (m, 1H), 1.45 (s, 9H), 1.53 – 1.62 (m, 2H), 1.64 – 1.75 (m, 1H), 2.47 – 2.58 (m, 1H), 2.59 – 2.73 (m, 1H), 3.49 – 3.60 (m, 1H), 3.65 – 3.74 (m, 1H), 3.74 – 3.83 (m, 1H), 3.98 – 4.31 (m, 2H).

15 ***rel-tert-Butyl (3R,4R)-3-hydroxy-4-((tosyloxy)methyl)piperidine-1-carboxylate,***
iA4-9''

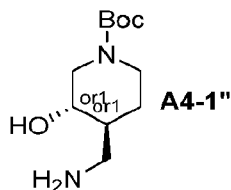


20 TsCl (7.22 g, 37.9 mmol) was added portionwise (over 10 min) to a stirred solution of iA4-8'' (7.96 g, 34.4 mmol) in dry pyridine (17 mL on an ice bath. The mixture was allowed to reach rt over 3h. Subsequently, the mixture was diluted with DCM, washed with aq HCl (1M), aq NaHCO₃ (4%), brine, dried and concentrated to give a thick yellow oil. This residue was purified by flash CC (EA:Hex=0:100-40:60) to yield iA4-9'' (8.49 g, 22 mmol) as a white solid.

MS Calcd.: 385; MS Found: 386 ([M+H]⁺).

25 ¹H NMR (400 MHz, Chloroform-*d*) δ 1.36 – 1.42 (m, 1H), 1.45 (s, 9H), 1.62 – 1.73 (m, 2H), 2.42 – 2.54 (m, 4H), 2.55 – 2.71 (m, 1H), 3.40 – 3.52 (m, 1H), 3.93 – 4.14 (m, 2H), 4.15 – 4.32 (m, 2H), 7.35 (d, J = 8.0 Hz, 2H), 7.76 – 7.81 (d, J = 8.0 Hz, 2H).

rel-tert-Butyl (3R,4R)-4-(aminomethyl)-3-hydroxypiperidine-1-carboxylate, A4-1''



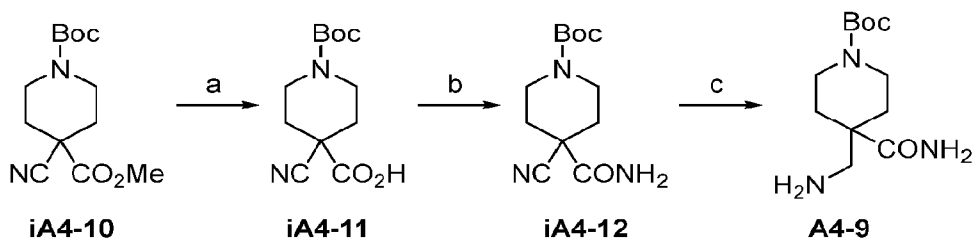
5 **iA4-9''** (52 mg, 0.14 mmol) was dissolved in NH₃ (32 wt%, 0.82 mL, 14 mmol) in a pressure tube and the reaction was heated on at 80°C. After cooling to rt H₂O was added and the product was extracted with DCM. The combined organic layer was washed with H₂O, dried through a phase separator cartridge and concentrated *in vacuo* to yield **A4-1''** (27 mg, 0.12 mmol) as a white solid.

10 MS Calcd.: 230; MS Found: 231 ([M+H]⁺).

This enantiomerically enriched intermediate was then used for the synthesis of the corresponding **A6** intermediates, that subsequently gave the corresponding **A7** final compounds following the experimental procedures described above.

15

Synthesis of *tert*-butyl 4-(aminomethyl)-4-carbamoylpiperidine-1-carboxylate, A4-9

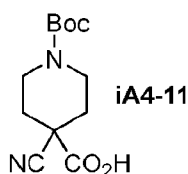


a) LiOH, THF. b) NH₃, HATU, DMF. c) PtO₂, AcOH.

20

Scheme A4-9

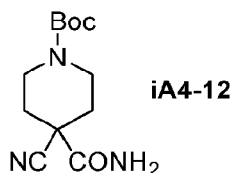
1-(*tert*-Butoxycarbonyl)-4-cyanopiperidine-4-carboxylic acid, iA4-11.



1-(*tert*-Butyl) 4-methyl 4-cyanopiperidine-1,4-dicarboxylate, **iA4-10**, (500 mg, 1.9 mmol) was dissolved in THF (7 mL) and a solution of LiOH (180 mg, 7.2 mmol) in H₂O (1 mL) was added. The reaction mixture was stirred at rt on. The reaction mixture was diluted with Et₂O (20 mL) and then washed with H₂O (3x10 mL). The aq phase was acidified with citric acid (1N, 10 mL) and extracted with DCM (3x20 ml). The combined organic phase was dried (MgSO₄), filtered, and concentrated to afford **iA4-11** (503 mg, 1.98 mmol).

LCMS: MS Calcd.: 254; MS Found: 253 ([M-H]).

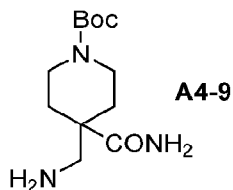
10 ***tert*-Butyl 4-carbamoyl-4-cyanopiperidine-1-carboxylate, iA4-12.**



iA4-11 (500 mg, 1.9 mmol) was dissolved in DMF (10 mL) and DIEA (1.0 mL, 5.7 mmol) was added, followed by addition of NH₃ (6 ml, 0.5M solution) and HATU (900 mg, 2.4 mmol). This mixture was stirred at rt for 18h, then diluted with EA (100 mL) and washed with H₂O (2x25 mL). The organic phase was dried (MgSO₄) and concentrated *in vacuo* to afford **iA4-12** (700 mg, 2.76 mmol).

¹H NMR (400 MHz, Chloroform-*d*) δ 1.46 (s, 9H), 1.95 (d, J = 12.7 Hz, 2H), 2.07 (td, J = 13.2, 12.6, 4.4 Hz, 2H), 3.11 – 3.25 (m, 2H), 3.72 (dtd, J = 13.3, 6.7, 4.2 Hz, 2H), 4.21 (s, 2H).

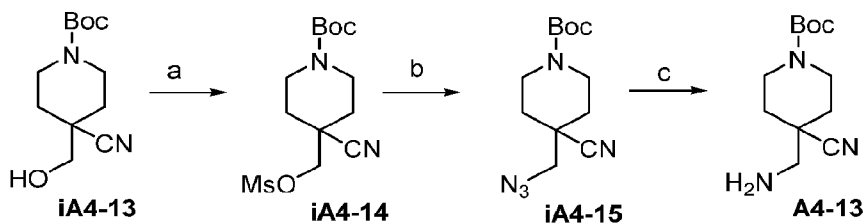
***tert*-Butyl 4-(aminomethyl)-4-carbamoylpiperidine-1-carboxylate, A4-9.**



25 PtO₂ (45 mg, 0.2 mmol) was added to a solution of **iA4-12** (480 mg, 1.9 mmol) in AcOH (10 ml). This mixture was hydrogenated at 15 Psi in a Parr apparatus for 18h. The reaction mixture was filtered and concentrated *in vacuo* to yield **A4-9** (390 mg, 1.5 mmol) as an oil.

LCMS: MS Calcd.: 257; MS Found: 258 ($[M+H]^+$).

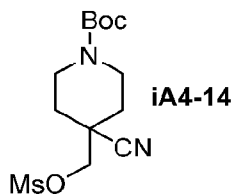
Synthesis of tert-butyl 4-(aminomethyl)-4-cyanopiperidine-1-carboxylate, A4-13:



a) MsCl, TEA, DCM. b) NaN₃, DMF. c) H₂, Pd/C, EtOH.

Scheme A4-13

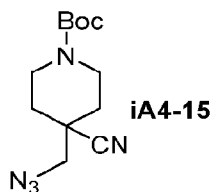
tert-Butyl 4-cyano-4-(((methylsulfonyl)oxy)methyl)piperidine-1-carboxylate, iA4-14.



TEA (726 μ L, 5 mmol) and methanesulfonyl chloride (193 μ L, 2.5 mmol) were added to a solution of tert-butyl 4-cyano-4-(hydroxymethyl)piperidine-1-carboxylate **iA4-13** (500 mg, 2 mmol) in 20 mL of anhydrous DCM and the reaction was stirred at rt for 2 h. Thereafter, DCM (20 mL) was added. The organic phase was washed with H₂O (30 mL), brine (30 mL), dried (MgSO₄) and concentrated *in vacuo* to afford **iA4-14** (642 mg, 2.02 mmol) as a white solid.

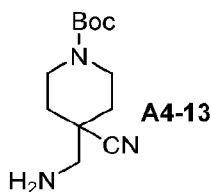
LCMS: MS Calcd.: 318.4; MS Found: 319 ($[M+H]^+$).

tert-Butyl 4-(azidomethyl)-4-cyanopiperidine-1-carboxylate, iA4-15.



NaN₃ (840 mg, 13 mmol) was added to a solution of **iA4-14** (0.42 g, 1.3 mmol) in DMF (0.5 mL) and the reaction mixture was stirred at 100°C for 2 days. More NaN₃ (420 mg) was added and the reaction was stirred at 100°C for an additional 15 h. Then, the reaction mixture was treated with Et₂O (30 mL) and H₂O (30 mL), the organic phase was washed with
 5 brine (30 mL), dried (Na₂SO₄) and concentrated *in vacuo* to give **iA4-15** (0.34 g, 1.28 mmol).
 LCMS: MS Calcd.: 265.3; MS Found: 266 ([M+H]⁺).

***tert*-Butyl 4-(aminomethyl)-4-cyanopiperidine-1-carboxylate, A4-13.**



10

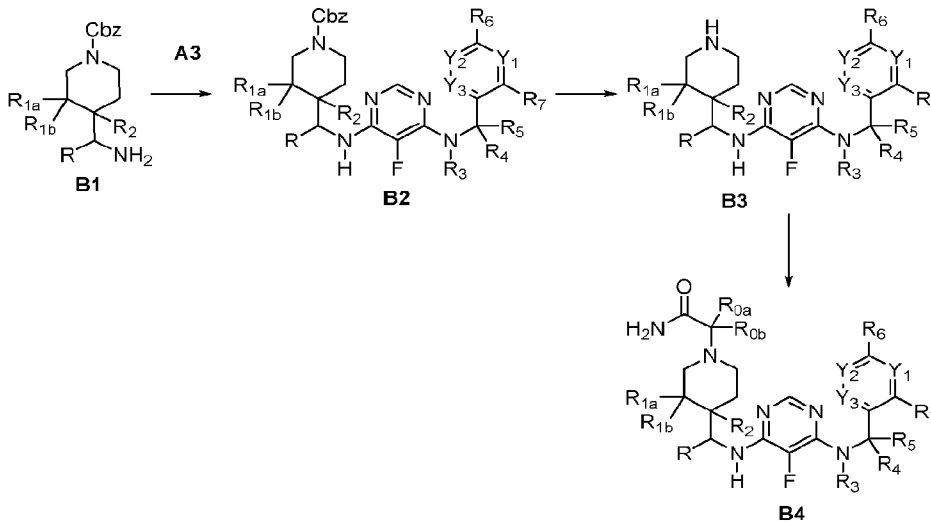
A solution of **iA4-15** (26 mg, 0.097 mmol) in EtOH (3 ml) was added to Pd/C (10%, 3 mg) and placed under a H₂ (1 atm) and the reaction mixture was stirred on. Then the mixture was filtered through a pad of Celite® and concentrated *in vacuo* to afford **A4-13** (20 mg, 0.08
 mmol).

15

LCMS: MS Calcd.: 239.3; MS Found: 240 ([M+H]⁺).

General Method B - Synthesis from Cbz-protected piperidines.

General Scheme B



20

Intermediate **A3**, a base (such as; DIEA, TEA or K_2CO_3) and the primary amine **B1** were dissolved in a solvent (such as DMSO or DMSO- H_2O , H_2O , H_2O -EtOH mixtures) and the temperature was then increased to 70 – 100 °C on, or until the reaction was considered complete. Thereafter, workup and purification gave Intermediate **B2**. The following Cbz-deprotection then gave **B3** that was often used without further purification, in the alkylation with 2-bromoacetamide and a suitable base, such as K_2CO_3 , DIEA, TEA, to yield **B4**.

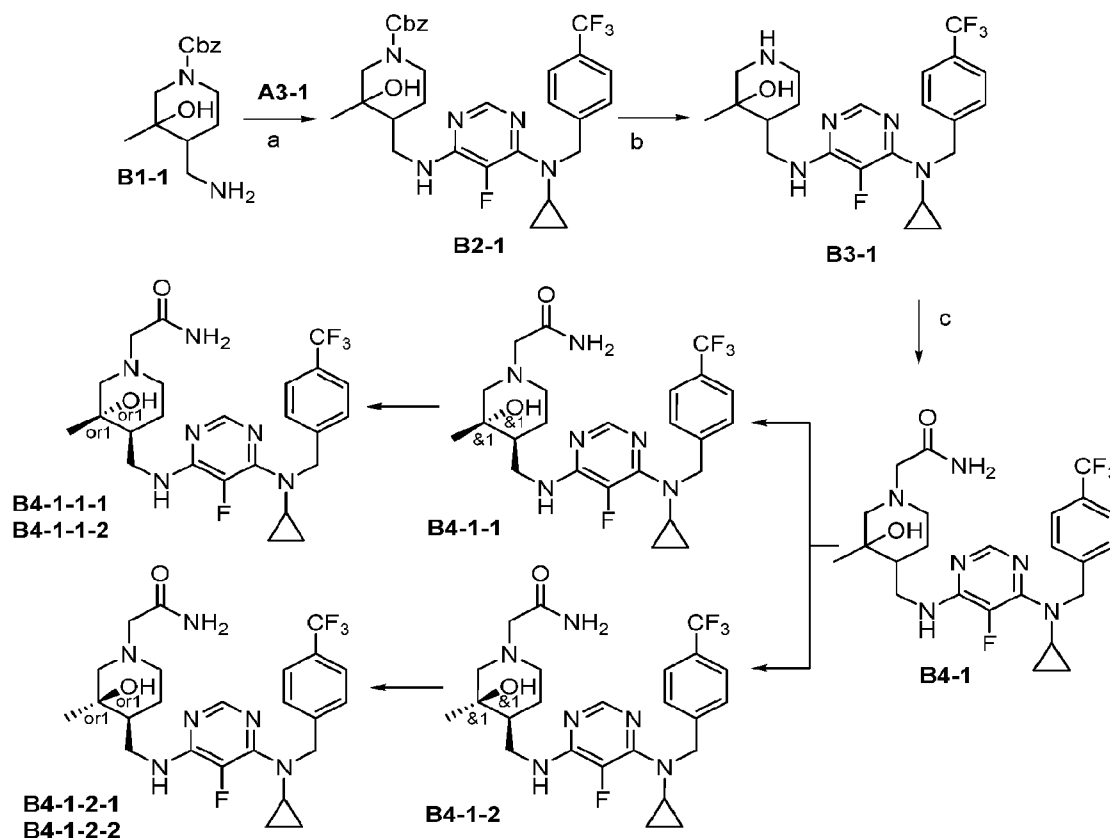
In the cases when the **B4** products were mixture of stereoisomers they were often (but not always) subjected to chiral resolution (chromatography) to obtain single stereoisomers as end products.

10

Example B4-1

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide (**B4-1**) and following purification of the stereo isomers **B4-1-1** and **B4-1-2**.

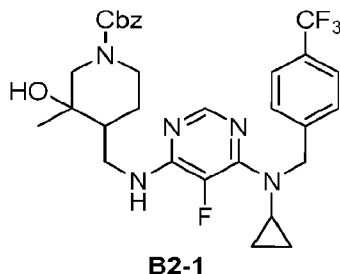
15



a) DIEA, DMSO. b) $Pd(OH)_2$, H_2 , MeOH. c) 2-Bromoacetamide, K_2CO_3 , DMF.

Scheme B4-1

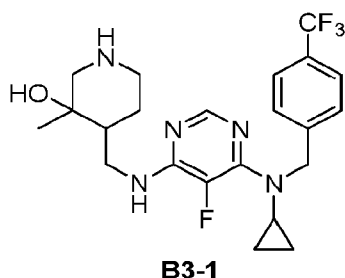
Benzyl 4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidine-1-carboxylate (B2-1)



5 To a solution of benzyl 4-(aminomethyl)-3-hydroxy-3-methylpiperidine-1-carboxylate (173 mg, 0.62 mmol) and **A3-1** (205 mg, 0.62 mmol) in DMSO (6 mL) DIEA (241 mg, 1.87 mmol) was added and the reaction was stirred at 90 °C for 2 h under microwave irradiation. After cooling to rt, H₂O (60 mL) was added and the mixture was extracted with EA (3 x). The combined organic layer was washed with brine (2 x 20 mL), dried (Na₂SO₄), filtered
10 and concentrated *in vacuo*. The remaining residue was purified by Prep TLC (MeOH:DCM=1:20) to afford **B2-1** (267 mg, 0.45 mmol) as a white solid, that was used without further purification.

LCMS: Observed MS 588 ([M+1]⁺).

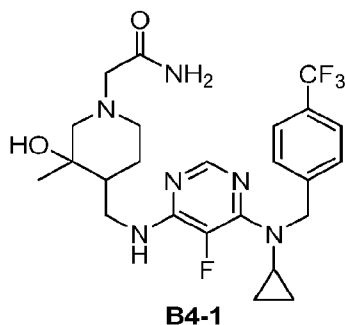
15 **4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-methylpiperidin-3-ol (B3-1)**



Pd(OH)₂ (90 mg, 20%) was added to a solution of **B2-1** (267 mg, 0.46 mmol) in MeOH (10 mL) and the reaction was stirred at rt under H₂ (1 atm) on. The mixture was filtered,
20 and the filtrate was concentrated *in vacuo* to yield **B3-1** (366 mg) as a white solid, that was used without further purification.

LCMS: MS Calcd.: 453; MS Found: 454 ([M+1]⁺).

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide (B4-1)



At rt K_2CO_3 (1.12 g, 8.10 mmol) and 2-bromoacetamide (233 mg, 1.62 mmol) were added to a solution of **B3-1** (366 mg, 0.81 mmol) in DMF (10 mL). The reaction was stirred at 35 °C for 4 h and then quenched by the addition of H_2O (80 mL). The resulting mixture was extracted with EA (3 x 30 mL) and the combined organic layer was washed with brine (3 x 20 mL) and concentrated *in vacuo*. The remains (540 mg) were purified by Prep HPLC to afford two diastereomeric products **B4-1-1** (140 mg) and **B4-1-2** (130 mg) as white solids.

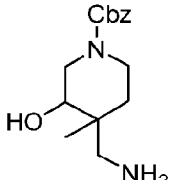
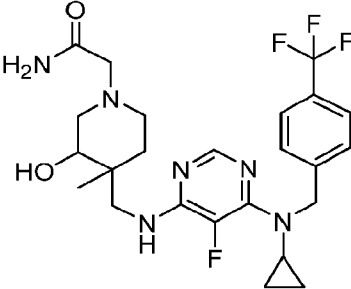
B4-1-1 was then subjected to chiral chromatography to yield **B4-1-1-1** (1st eluting isomer) and **B4-1-1-2** (2nd eluting isomer). **NUE020138 and NUE020139**

B4-1-2 was then subjected to chiral chromatography to yield **B4-1-2-1** (1st eluting isomer) and **B4-1-2-2** (2nd eluting isomer). **NUE020698 and NUE020699**

MS Calcd.: 510; MS Found: 511 ($[M+1]^+$).

The following cmpds were synthesized according to **General Method B** using the shown starting materials (Table B).

Table B:

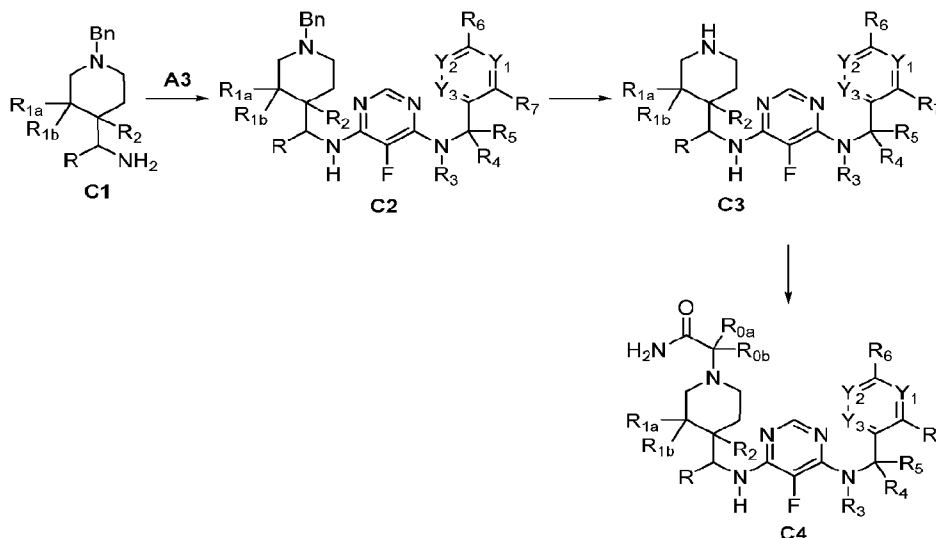
B1	B4
<p>B1-2</p>  <p>benzyl 4-(aminomethyl)-3-hydroxy-4-methylpiperidine-1-carboxylate</p>	<p>B4-2-1-1</p>  <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>B1-2</p>	<p>B4-2-1-2</p> <p>2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide 2nd eluting isomer</p>

For the B4-2 compounds only 2 compounds (enantiomers) were isolated.

General Method C:

5

General scheme C

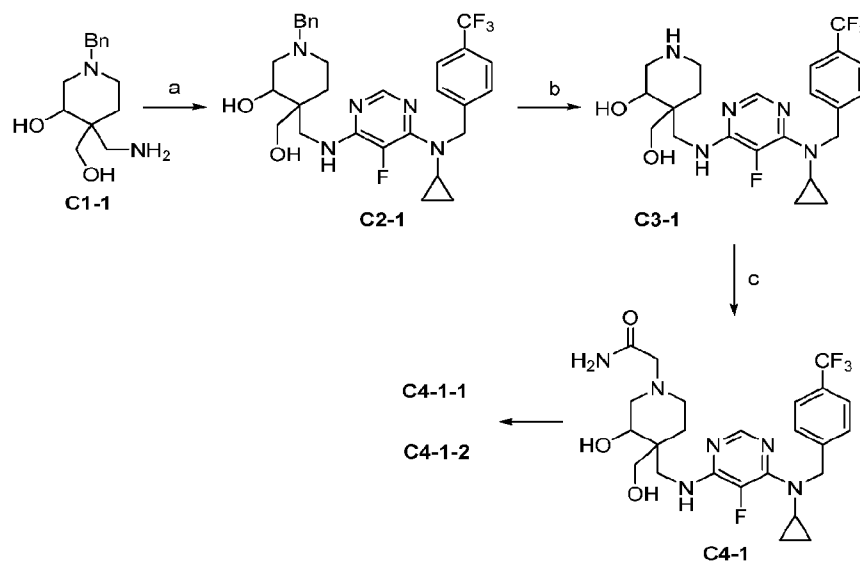


Intermediate **A3**, a base (such as; DIEA, TEA or K_2CO_3) and the primary amine **C1** were dissolved in a solvent (such as DMSO or DMSO- H_2O , H_2O , H_2O -EtOH mixtures) and the temperature was then increased to 70 – 100 °C on, or until the reaction was considered complete. Thereafter, workup and purification gave Intermediate **C2**. The following Bn-
 5 deprotection under H_2 atmosphere and using Pd as a catalyst, gave **C3** that was often used without further purification, in the alkylation with 2-bromoacetamide and a suitable base, such as K_2CO_3 , DIEA, TEA, to yield **C4**.

In the cases when the **C4** products were mixture of stereoisomers they were often (but not always) subjected to chiral resolution (chromatography) to obtain single stereoisomers as
 10 end products.

Examples C4-1

Synthesis of 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-
 fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-
 15 yl)acetamide (**C4-1**) and isolation of two isomers (**C4-1-1** and **C4-1-2**).

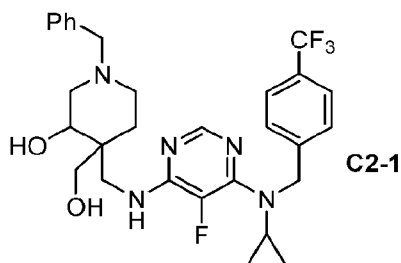


a) DIEA, **A2-1**, DMSO. b) Pd/C, H_2 , EA. e) 2-Bromoacetamide, K_2CO_3 .

Scheme C4-1

20

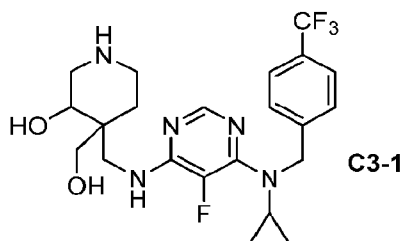
1-Benzyl-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-
 fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-3-ol (**C2-1**)



DIEA (465 mg, 3.6 mmol) and **A3-1** (434 mg, 1.32 mmol) were added to a solution of **C1-1** (300 mg, 1.2 mmol) in DMSO (5 mL). The reaction was heated to 95 °C on under microwave irradiation. Then, the mixture was poured into H₂O (20 mL) and extracted with EA (3 x 20 mL). The combined organic layers were washed with brine (20 mL), dried (Na₂SO₄), filtered, and then concentrated *in vacuo*. The residue was purified by Flash CC (DCM/MeOH=10:1) to afford **C2-1** (432 mg, 64% yield) as a yellow oil.

LCMS: MS Calcd.: 559; MS Found: 560 ([M+1]⁺).

10 **4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-3-ol (C3-1)**

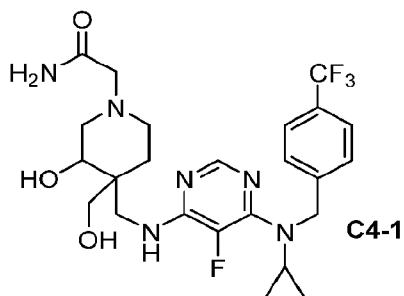


15 First Pd/C (10%, 90 mg) and thereafter several drops of HOAc were added to a solution of **C2-1** (432 mg, 0.77 mmol) in EA (10 mL). The reaction was stirred at ambient temperature under a H₂ atmosphere (1 atm) for 2 days. Then the mixture was filtered, washed with EA and pH neutralized with sat NaHCO₃. The resulting mixture was extracted with EA, the pooled organic phase was concentrated *in vacuo* to afford crude **C3-1** (247 mg, 68% yield) as brown semi-solid, which was used without further purification.

LCMS: MS Calcd.: 469; MS Found: 470 ([M+1]⁺).

20

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide (C4-1)



2-Bromoacetamide (87 mg, 0.63 mmol) and K_2CO_3 (363 mg, 2.6 mmol) were added to a solution of **C3-1** (247 mg, 0.52 mmol) in DMF (10 mL) and the reaction was stirred at rt on. The reaction was poured into H_2O (30 mL), extracted with EA (3 x 30 mL). The combined organic phase was washed with brine (30 mL), dried (Na_2SO_4), filtered and then concentrated *in vacuo*. The residue was purified by Flash CC (DCM/MeOH=15/1) to yield **C4-1** (84 mg, 30% yield) as a white solid.

Isolation of two isomers of **C4-1** – **C4-1-1** and **C4-1-2**

After Prep-Chiral-HPLC, two enantiomers **C4-1-1** (1st eluting isomer) and **C4-1-2** (2nd eluting isomer) were isolated from the racemic compound **C4-1** as white solids.

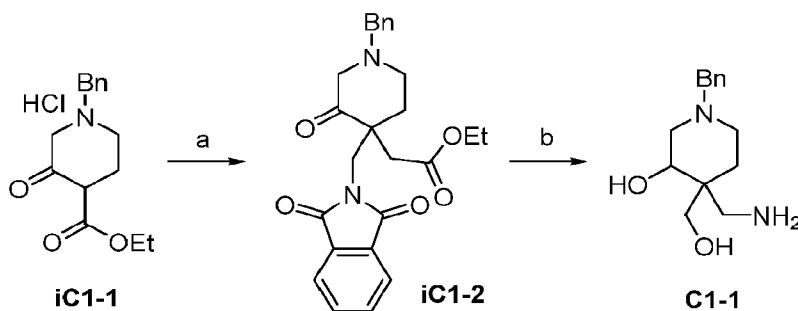
The following cmpds were synthesized according to **General Method C** using the shown starting materials (Table C).

Table C:

C1	A3	C4
C1-1	<p>A3-3</p> <p><i>N</i>-(3,5-bis(trifluoromethyl)benzyl)-<i>N</i>-ethyl-5,6-difluoropyrimidin-4-amine</p>	<p>C4-2-1</p> <p>2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 1st eluting isomer</p>

C1-1	A3-3	C4-2-2 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide 2 nd eluting isomer
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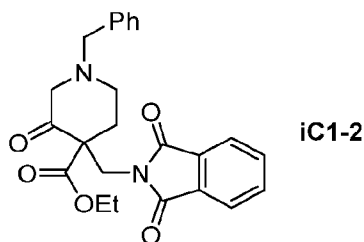
Synthesis of 4-(aminomethyl)-1-benzyl-4-(hydroxymethyl)piperidin-3-ol, C1-1



5 a) 2-(Bromomethyl)phthalimide, *t*BuOK, THF. b) NaBH₄, *i*PrOH/H₂O.

Scheme C1-1

Ethyl 1-benzyl-4-((1,3-dioxoisindolin-2-yl)methyl)-3-oxopiperidine-4-carboxylate, iC1-2



10

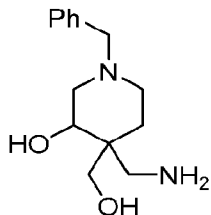
Ethyl 1-benzyl-3-oxopiperidine-4-carboxylate hydrochloride **iC1-1** (5.0 g, 16.8 mmol) was added to an ice-cooled suspension of *t*BuOK (5.6 g, 50 mmol) in THF (50 mL) and the reaction was stirred at 0 °C for 30min. Then the reaction was warmed to rt, and stirred at this temperature for 60 min. The reaction was again cooled before the addition of 2-(bromomethyl)phthalimide (6.3 g, 25.2 mmol) in THF (30 mL) at 0 °C. The reaction mixture was stirred at 0 °C for 60 min, warmed up to ambient temperature and stirred at this temperature on. The reaction was quenched with NH₄Cl (sat, 50 mL), extracted with EA (3 x 50 mL), the combined organic phase was washed with brine (50 mL), dried (Na₂SO₄), filtered, concentrated

15

and the residue was purified by Flash CC, (DCM:MeOH=20:1) to afford crude **iC1-2** (2.4 g, 34% yield) as white solid.

LCMS: MS Calcd.: 420; MS Found: 421 ($[M+1]^+$).

5 **4-(Aminomethyl)-1-benzyl-4-(hydroxymethyl)piperidin-3-ol, C1-1**



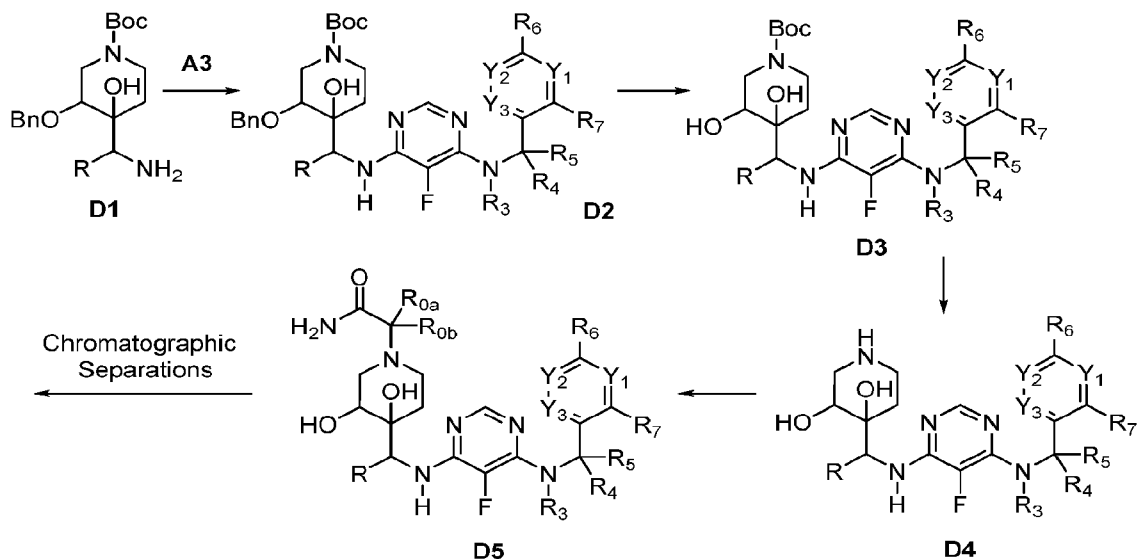
C1-1

NaBH₄ (1.2 g, 31.4 mmol) was added to suspension of crude **iC1-2** (2.2 g, 5.2 mmol) in *i*PrOH/H₂O (7/1, 72 mL) at rt. The reaction was stirred at this temperature for 5 h. The reaction was quenched by the addition of conc HCl until the pH was ca 1. The mixture was warmed to 80 °C and stirred at this temperature on. The mixture was filtered and washed with DCM (10 mL). The aq solution was neutralized with sat. NaHCO₃, freeze-dried and dissolved in EA (20 mL), filtered and washed with EA (10 mL). The combined organic layers were concentrated in vacuo to afford **C1-1** (600 mg, 45% yield) as a pale-yellow solid, which was used directly in next step without further purification.

15 LCMS: MS Calcd.: 250; MS Found: 251 ($[M+1]^+$).

General Method 1D - Synthesis of 1,2-diols

General Scheme 1D



Intermediate **A3**, a base (such as; DIEA, TEA or Cs_2CO_3) and the primary amine **D1** were dissolved in a solvent (such as DMSO or DMSO- H_2O , H_2O , H_2O -ethanol mixtures) and the temperature was increased to 70 – 100 °C on, or until the reaction was considered complete. Workup and purification then gave Intermediate **D2**, which was subjected to de-protection of the benzyl ether using Pd/C to produce **D3**. Boc-deprotection of **D3** (using TFA in DCM) gave intermediate **D4** as the corresponding salt. Intermediate **D4** was then used directly in the alkylation with the corresponding 2-bromoacetamide and a suitable base (most often K_2CO_3) in DMF to produce **D5**.

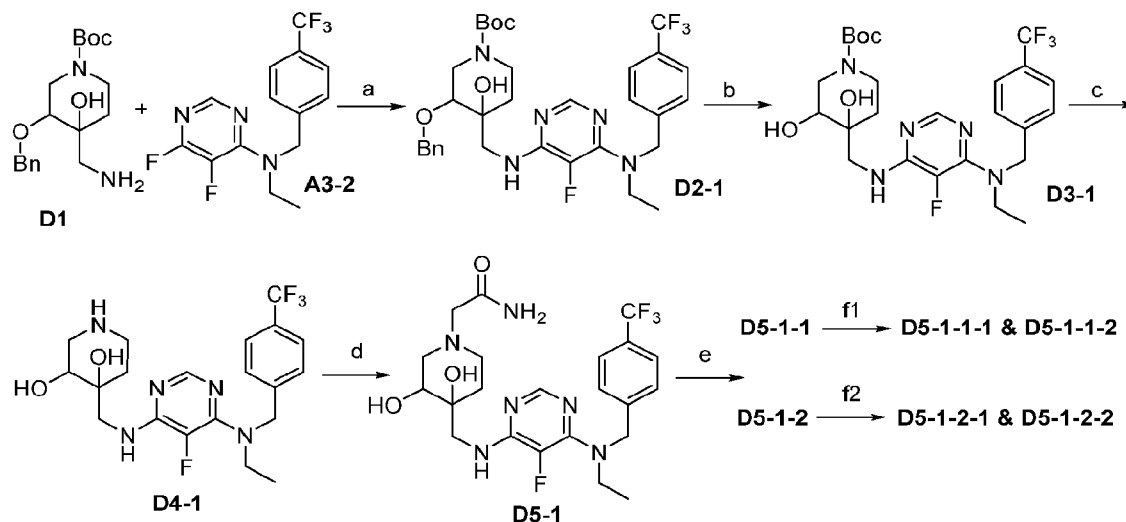
The diastereomers (cis trans diols) were separated using non-chiral chromatographic methods. Finally, the enantiomers were isolated using chiral chromatographic methods to yield the end compounds.

15

Example D5-1

Synthesis and isolation of the 4 stereoisomers of 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, **D5-1-1-1** & **D5-1-1-2**, and **D5-1-2-1** & **D5-1-2-2**

20

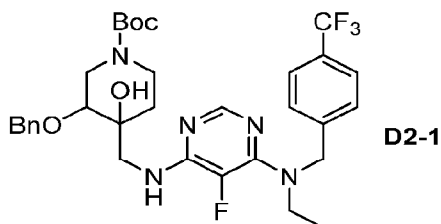


a) DIEA, DMSO, rt. b) Pd/C, NH_4HCO_2 , MeOH. c) TFA, DCM. d) 2-Bromoacetamide, K_2CO_3 , DMF. e) Prep-TLC. f1) CHIRALPAK IG. f2) CHIRALPAK IE.

Scheme D5-1

5

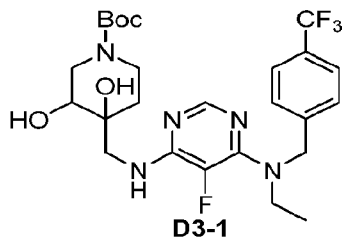
tert-Butyl 3-(benzyloxy)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidine-1-carboxylate, D2-1.



DIEA (743 mg, 5.8 mmol) was added to a solution of crude **D1** (1.36 g) and **A3-2** (608 mg, 1.9 mmol) in DMSO (12 mL). The reaction was then stirred at 90 °C for 2 h under microwave irradiation. The mixture was then poured into H_2O (80 mL) and extracted with EA (3 x 30 mL). The combined organic layer was washed with brine (3 x 20 mL), dried (Na_2SO_4), filtered and concentrated *in vacuo*. The remaining residue was purified by Flash CC (EA:PE=1:5 to 1:2) to give **D2-1** (1.3 g, >100%) as a colorless oil.

LCMS: MS Calcd.: 633; MS Found: 634 ($[\text{M}+1]^+$).

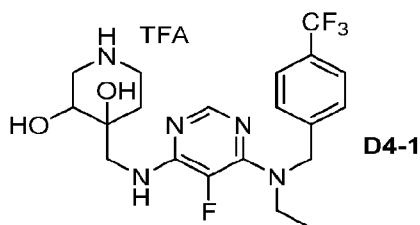
tert-Butyl 4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidine-1-carboxylate, D3-1



Pd/C (10 %, 1.0 g) was added to a mixture of **D2-1** (1.3 g, 1.9 mmol) and NH_4HCO_2 (2.9 g, 46.1 mmol) in MeOH (40 mL). The reaction was refluxed on, filtered and concentrated
 5 *in vacuo*. The remaining residue was purified by Flash CC (EA:PE=1:2 to 1:1.5) to give **D3-1** (360 mg, 34%) as a white solid.

LCMS: MS Calcd.: 543; MS Found: 544 ($[\text{M}+1]^+$).

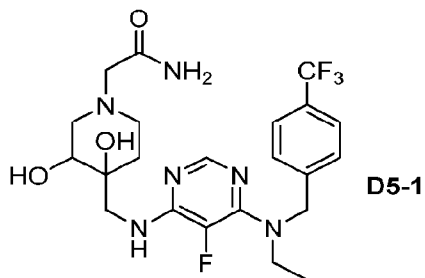
4-(((6-(Ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol TFA salt, D4-1



TFA (4 mL) was added to a solution of **D3-1** (360 mg, 0.66 mmol) in DCM (10 mL) and the reaction was stirred at rt for 60 min. The reaction mixture was concentrated *in vacuo*
 15 to afford the crude **D4-1** (830 mg, >100%) as a yellow oil, which was used without further purification.

LCMS: MS Calcd.: 443; MS Found: 444 ($[\text{M}+1]^+$).

2-(4-(((6-(Ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, D5-1



20

K₂CO₃ (911 mg, 6.60 mmol) and 2-bromoacetamide (183 mg, 1.33 mmol) were in turn added to a solution of crude **D5-1** (830 mg, 0.66 mmol) in DMF (10 mL) and the reaction was stirred at 25 °C for 2 h. The reaction was quenched with H₂O (60 mL) and then extracted with EA (3 x 30 mL). The combined organic layers were washed with brine (3 x 15mL), dried
5 (Na₂SO₄), filtered and concentrated *in vacuo*. The residue was then purified according to the procedure below to obtain the 4 stereo isomers.

Separation and isolation of the stereoisomers D5-1-1-1, D5-1-1-2, D5-1-2-1 and D5-1-2-2 from D5-1.

10

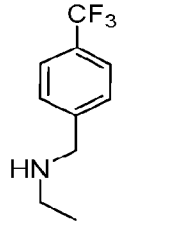
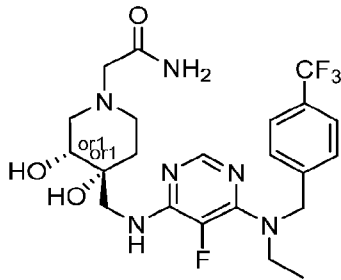
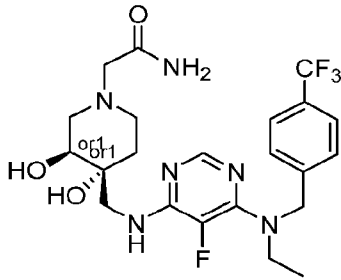
Preparative TLC (MeOH:DCM=1:10) to afford two products **D5-1-1** (60 mg) and **D5-1-2** (90 mg).

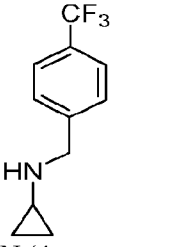
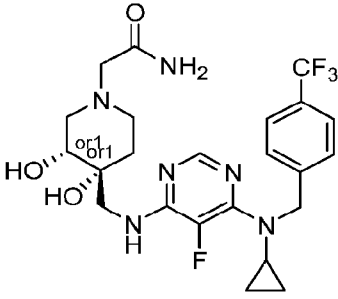
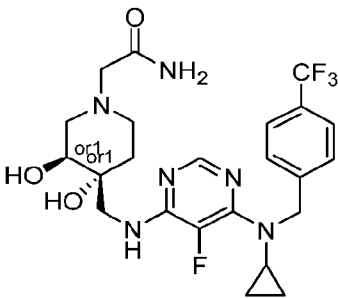
D5-1-1 was thereafter subjected to chiral chromatography (CHIRALPAK IG) which
15 gave the enantiomers **D5-1-1-1** (1st eluting isomer (19 mg) and **D5-1-1-2** (2nd eluting isomer) (19 mg) as white solids.

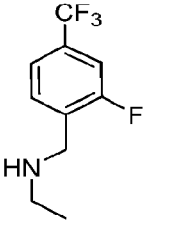
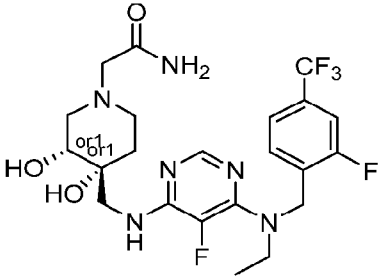
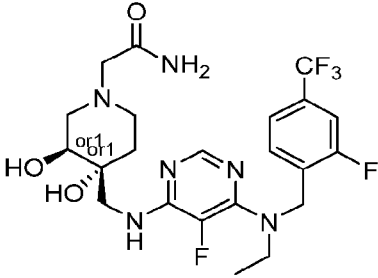
D5-1-2 was thereafter subjected to chiral chromatography (CHIRALPAK IE) which
gave the enantiomers **D5-1-2-1** (1st eluting isomer (25 mg) and **D5-1-2-2** (2nd eluting isomer)
20 (26 mg) as white solids.

General method 1D was used to prepare the following example numbers using the shown starting materials (**Table D**).

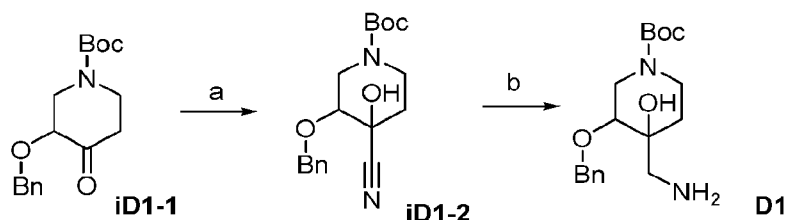
Table 1D:

A1	D5
<p data-bbox="261 290 341 314">A1-13</p>  <p data-bbox="261 551 456 670"><i>N</i>-(4-(trifluoromethyl)benzyl)ethanamine</p>	<p data-bbox="488 290 600 314">D5-1-1-1</p>  <p data-bbox="488 633 1257 752"><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p data-bbox="261 760 341 784">A1-13</p>	<p data-bbox="488 760 600 784">D5-1-1-2</p> <p data-bbox="488 817 1257 936"><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p data-bbox="261 944 341 968">A1-13</p>	<p data-bbox="488 944 600 968">D5-1-2-1</p>  <p data-bbox="488 1287 1257 1406"><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p data-bbox="261 1414 341 1438">A1-13</p>	<p data-bbox="488 1414 600 1438">D5-1-2-2</p> <p data-bbox="488 1471 1257 1586"><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

<p>A1-1</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)cyclopropanamine</p>	<p>D5-2-1-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-1</p>	<p>D5-2-1-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-1</p>	<p>D5-2-2-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide -1st eluting isomer</p>
<p>A1-1</p>	<p>D5-2-2-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide -2nd eluting isomer</p>

<p>A1-18</p>  <p><i>N</i>-(2-fluoro-4-(trifluoromethyl)benzyl)ethanamine</p>	<p>D5-3-1-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-18</p>	<p>D5-3-1-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>
<p>A1-18</p>	<p>D5-3-2-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 1st eluting isomer</p>
<p>A1-18</p>	<p>D5-3-2-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>S</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide 2nd eluting isomer</p>

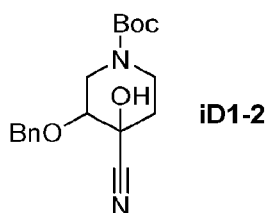
Synthesis of *tert*-butyl 4-(aminomethyl)-3-(benzyloxy)-4-hydroxypiperidine-1-carboxylate, D1



a) KCN, NaHCO₃, DCM, H₂O. b) LiAlH₄, THF.

Scheme D1

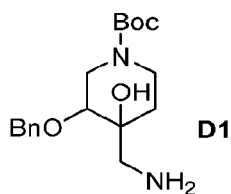
5 **tert-Butyl 3-(benzyloxy)-4-cyano-4-hydroxypiperidine-1-carboxylate, iD1-2**



A solution of tert-butyl 3-(benzyloxy)-4-oxopiperidine-1-carboxylate (1.9 g, 6.2 mmol) in DCM (20 mL) was added to a solution of KCN (1.0 g, 15.6 mmol) and NaHCO₃ (2.1 g, 24.9 mmol) in H₂O (20 mL) and stirred at rt on. H₂O (10 mL), was added and the mixture was extracted with DCM (3 x 20 mL). The combined organic phase was washed with brine (3 x 20 mL), dried (Na₂SO₄), filtered and concentrated *in vacuo* to yield **iD1-2** (1.7 g, 5.1 mmol) as a colorless oil, which was used without further purification.

LCMS: MS Calcd.: 332; MS Found: 333 ([M+1]⁺).

15 **tert-Butyl 4-(aminomethyl)-3-(benzyloxy)-4-hydroxypiperidine-1-carboxylate, iD1-3**



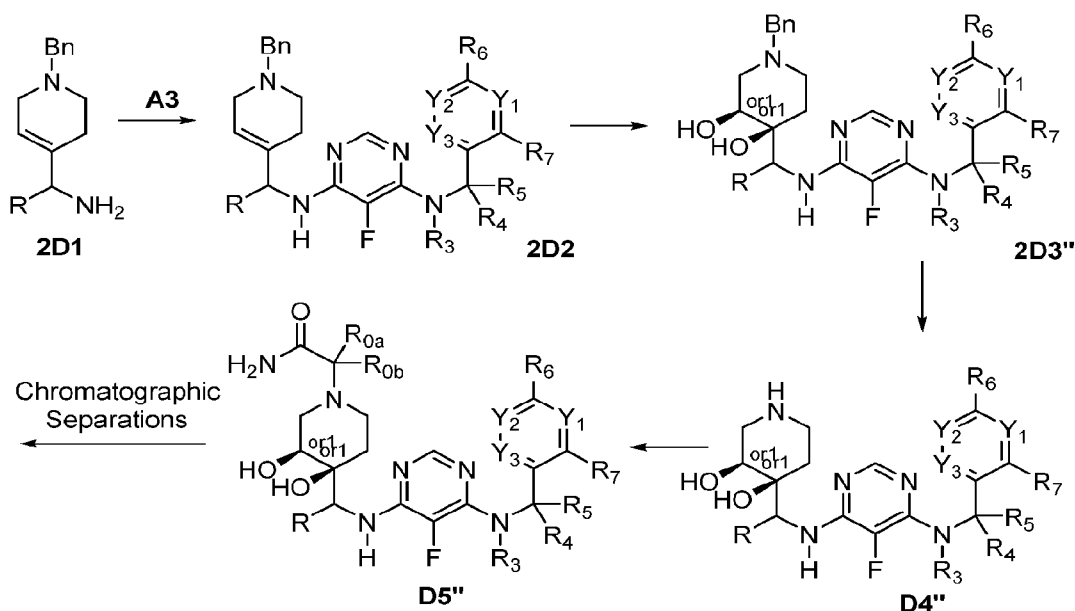
Under a N₂ atmosphere LiAlH₄ (390 mg, 10.2 mmol) was added to a solution of **iD1-2** (1.7 g, 5.1 mmol) in THF (20 mL) at 0 °C. The reaction was stirred at rt on and then mixture quenched by the addition of H₂O (0.4 mL), 15%NaOH (0.4 mL), and then H₂O (1.2 mL). The mixture was filtered, and then extracted with DCM (3 x 15 mL). The combined organic layers were washed with brine (20 mL), dried (Na₂SO₄), filtered and concentrated *in vacuo* to yield crude **iD1-3** (1.36 g, 4.0 mmol) as a colorless oil, which was used without further purification.

LCMS: MS Calcd.: 336; MS Found: 337 ([M+1]⁺).

General Method 2D

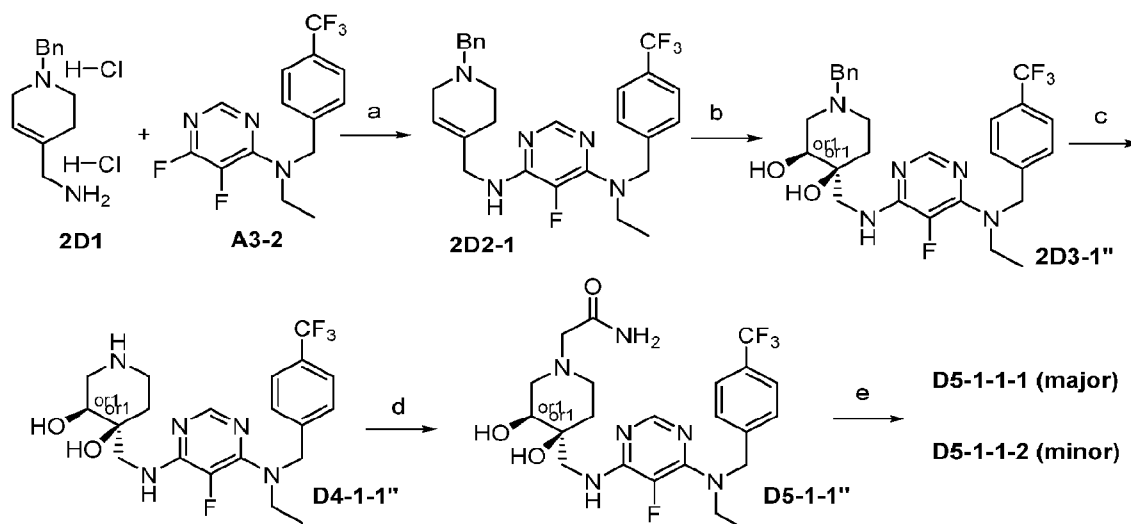
5 Alternatively, the 1,2-diols were synthesized in an enantiomerically enriched fashion by employing the Sharpless Dihydroxylation.

General Scheme 2D



10 Example D5-1-1

Synthesis of enantiomerically enriched *rel*-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, **D5-1-1''** and separation of the two isomers **D5-1-1-1**
 15 and **D5-1-1-2**.

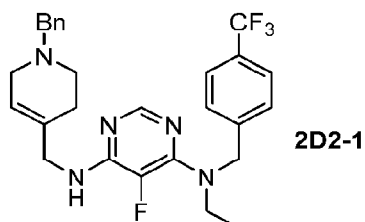


a) DIEA, DMSO. b) K_2FeCN_6 , K_2CO_3 , DHQ₂(PHAL), $K_2OsO_2(OH)_4$, $MeSO_2NH_2$, $tBuOH/H_2O$. c) Pd/C, MeOH. d) 2-Bromoacetamide, K_2CO_3 , DMF. e) CHIRALPAK IG.

Scheme D5-1-1

5

***N*⁴-((1-benzyl-1,2,3,6-tetrahydropyridin-4-yl)methyl)-*N*⁶-ethyl-5-fluoro-*N*⁶-(4-(trifluoromethyl)benzyl)pyrimidine-4,6-diamine, 2D2-1.**

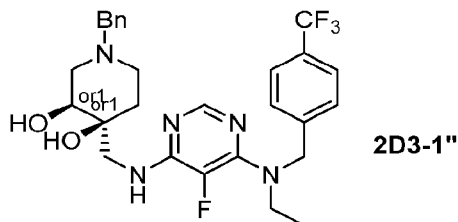


N-ethyl-5,6-difluoro-*N*-(4-(trifluoromethyl)benzyl)pyrimidin-4-amine (**A3-2**) (1.3 g, 4.0 mmol) and (1-benzyl-1,2,3,6-tetrahydropyridin-4-yl)methanamine (**2D1**) (1.1 g, 4.0 mmol), were added to a solution of DIEA (2.6 g, 20.0 mmol) in DMSO (20 mL) and the reaction was stirred at 90 °C on. H₂O (60 mL) was added and the mixture was extracted with EA (3 x 20 mL). The combined organic layer was washed with brine (3 x 20 mL), dried (Na_2SO_4), filtered and concentrated *in vacuo*. The remaining residue was purified by Flash CC (MeOH:DCM=1:30) to yield **2D2-1** (1.0 g, 50%) as a yellow oil.

LCMS: MS Calcd.: 499; MS Found: 500([M+H]⁺).

Enantiomerically enriched *rel*-(3*R*,4*R*)-1-benzyl-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol, 2D3-1''

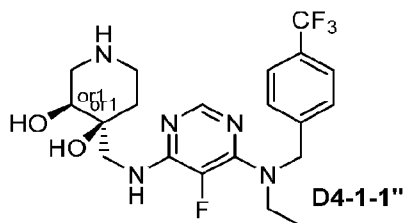
20



Compound **2D2-1** (1.0 g, 2.0 mmol) was added to a mix of *t*-BuOH/H₂O (15 mL/15 mL). The mixture was cooled to 0 °C and the following were added; K₃Fe(CN)₆ (2.0 g, 6.0 mmol), K₂CO₃ (830 mg, 6.0 mmol), (DHQ)₂PHAL (47 mg, 0.06 mmol), K₂OsO₂(OH)₄ (22 mg, 0.06 mmol) and MeSO₂NH₂ (190 mg, 2.0 mmol). The reaction was stirred at rt on and thereafter quenched by the addition of NaNO₂ (12 g) and H₂O (30 mL). After stirring the quenched mixture at rt for 1h it was extracted with DCM (3 x 20 mL). The combined organic layer was washed with brine and concentrated *in vacuo*. The remaining residue was purified by Flash CC (EA:PE = 1:2 to 1:1) to yield **2D3-1''** (900 mg, 84%) as a brown oil.

LCMS: MS Calcd.: 533; MS Found: 534 ([M+H]⁺).

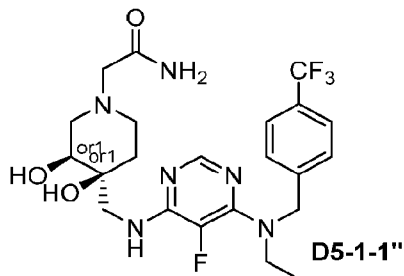
Enantiomerically enriched *rel*-(3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol, D4-1-1''



Compound **2D3-1''** (900 mg, 1.69 mmol) was dissolved in MeOH (20 mL) and then Pd/C (480 mg, 10%) was added. The reaction was stirred under H₂ (1 atm) on. The reaction was filtered and concentrated *in vacuo* to yield **D4-1-1''** (526 mg, 70%) as a white solid.

LCMS: MS Calcd.: 443; MS Found: 444 ([M+H]⁺).

Enantiomerically enriched *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, D5-1-1'' and isolation of the enantiomers D5-1-1-1 (major) and D5-1-1-2 (minor).



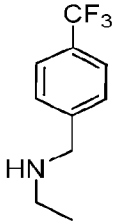
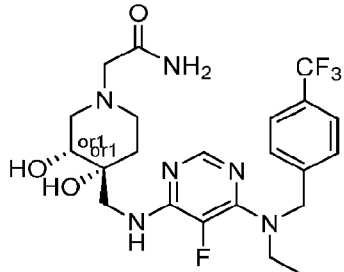
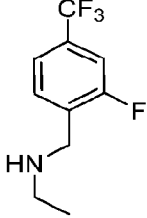
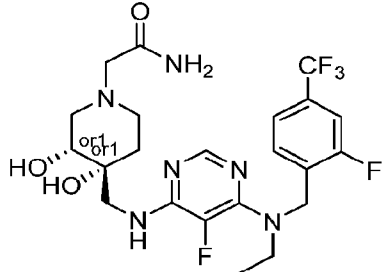
Compound **D4-1-1''** (526 mg, 1.19 mmol), K₂CO₃ (1.6 g, 11.90 mmol) and 2-bromoacetamide (328 mg, 2.37 mmol) were added to DMF (10 mL). The reaction was stirred at 25 °C for 2 h, and then quenched by the addition of H₂O (50 mL). The resulting mixture was extracted with EA (3 x 20 mL) and the combined organic layer was washed with brine (3 x 20 mL), dried (Na₂SO₄), filtered and concentrated *in vacuo*. The remaining residue was purified by Prep-TLC (MeOH:DCM=1:10) yield **D5-1-1''** (325 mg, 54%) as a white solid.

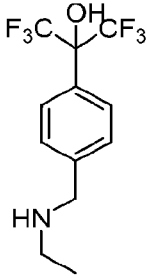
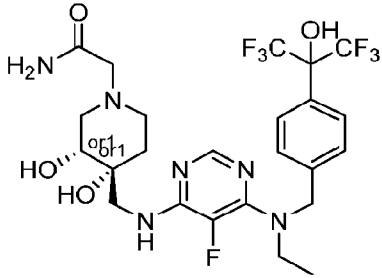
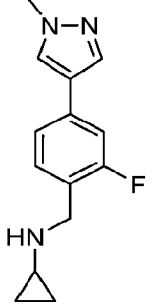
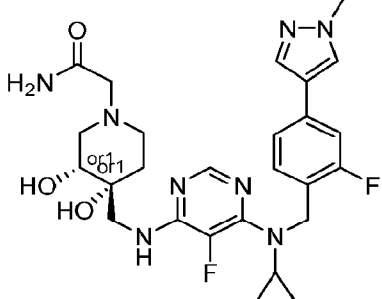
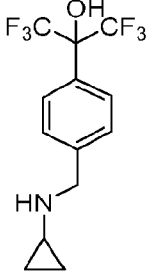
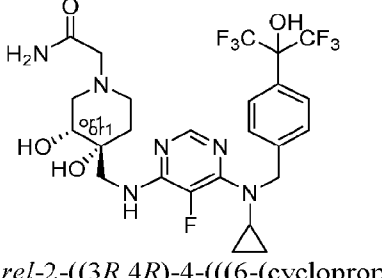
LCMS: MS Calcd.: 500; MS Found: 501 ([M+H]⁺).

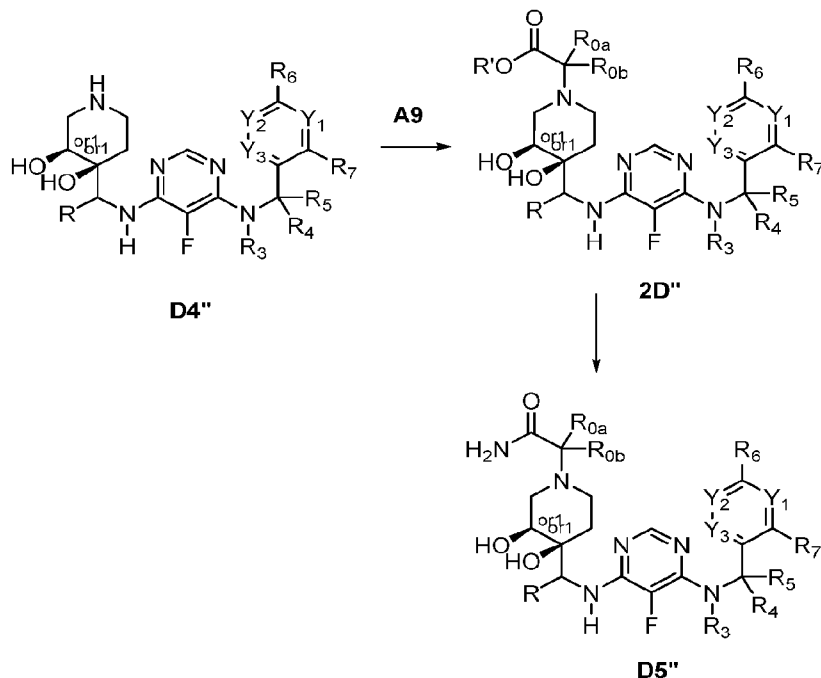
The enantiomers of **D5-1-1''** (320 mg) were then isolated, as previously described, to yield *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide **D5-1-1-1** (250 mg, major isomer) and *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide **D5-1-1-2** (50 mg, minor isomer).

General method 2D was used to prepare the following example numbers using the shown starting materials (**Table 2D**).

Table 2D:

A1	D5
<p>A1-13</p>  <p><i>N</i>-(4-(trifluoromethyl)benzyl)ethanamine</p>	<p>D5-1-1-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Major isomer</p>
<p>A1-13</p>	<p>D5-1-1-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Minor isomer</p>
<p>A1-18</p>  <p><i>N</i>-(2-fluoro-4-(trifluoromethyl)benzyl)ethanamine</p>	<p>D5-3-1-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Major isomer</p>
<p>A1-18</p>	<p>D5-3-1-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Minor isomer</p>

<p>A1-65</p>  <p>2-(4-((ethylamino)methyl)phenyl)-1,1,1,3,3,3-hexafluoropropan-2-ol</p>	<p>D5-4''</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Enantiomerically enriched</p>
<p>A1-67</p>  <p><i>N</i>-(2-fluoro-4-(1-methyl-1<i>H</i>-pyrazol-4-yl)benzyl)cyclopropanamine</p>	<p>D5-5-1</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1<i>H</i>-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Major isomer</p>
<p>A1-67</p>	<p>D5-5-2</p> <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1<i>H</i>-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Minor isomer</p>
<p>A1-34</p>  <p>2-(4-((cyclopropylamino)methyl)phenyl)-1,1,1,3,3,3-hexafluoropropan-2-ol</p>	<p>D5-6''</p>  <p><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide Enantiomerically enriched</p>

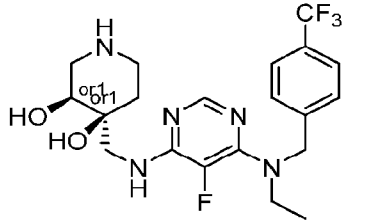
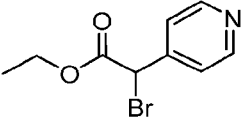
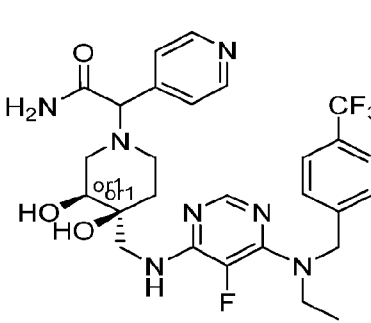
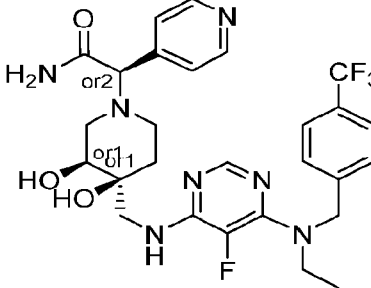
General Method 2D' - Synthesis with substituted bromoacetamides.**General scheme 2D'**

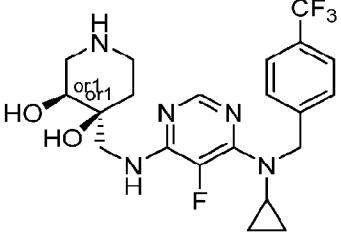
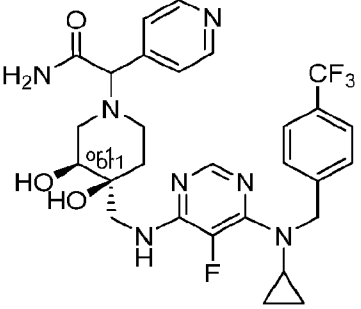
5 If R_0 group differed from H, the alkylation of **D4''** was performed with the corresponding 2-bromoacetoester **A9** and a suitable base (as described in **General Method 2A** above) to give **2D''**. These alkylations often required higher temperatures (up to 100°C). Thereafter, subsequent aminolysis (NH_3 in MeOH) gave **D5''**. Experimental procedures were in accordance to those described under **General Method 2A**.

10

The following examples were synthesized according to **General Method 2D'** using the shown starting materials (**Table 2D'**).

Table 2D':

D4	A9	D5
<p data-bbox="247 292 343 322">D4-1-1''</p>  <p data-bbox="247 547 614 731"><i>rel</i>-(3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol Enantiomerically enriched</p>	<p data-bbox="643 292 710 322">A9-1</p>  <p data-bbox="643 445 885 506">ethyl 2-bromo-2-(pyridin-4-yl)acetate</p>	<p data-bbox="973 292 1045 322">D5-7''</p>  <p data-bbox="973 649 1348 860"><i>rel</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide Enantiomerically enriched</p>
<p data-bbox="247 870 343 901">D4-1-1''</p>	<p data-bbox="643 870 710 901">A9-1</p>	<p data-bbox="973 870 1061 901">D5-7-1</p>  <p data-bbox="973 1226 1348 1710"><i>rel</i>-(<i>R</i>)-2-((3<i>R</i>,4<i>R</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide OR <i>rel</i>-(<i>R</i>)-2-((3<i>S</i>,4<i>S</i>)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide 1st eluting major isomer</p>

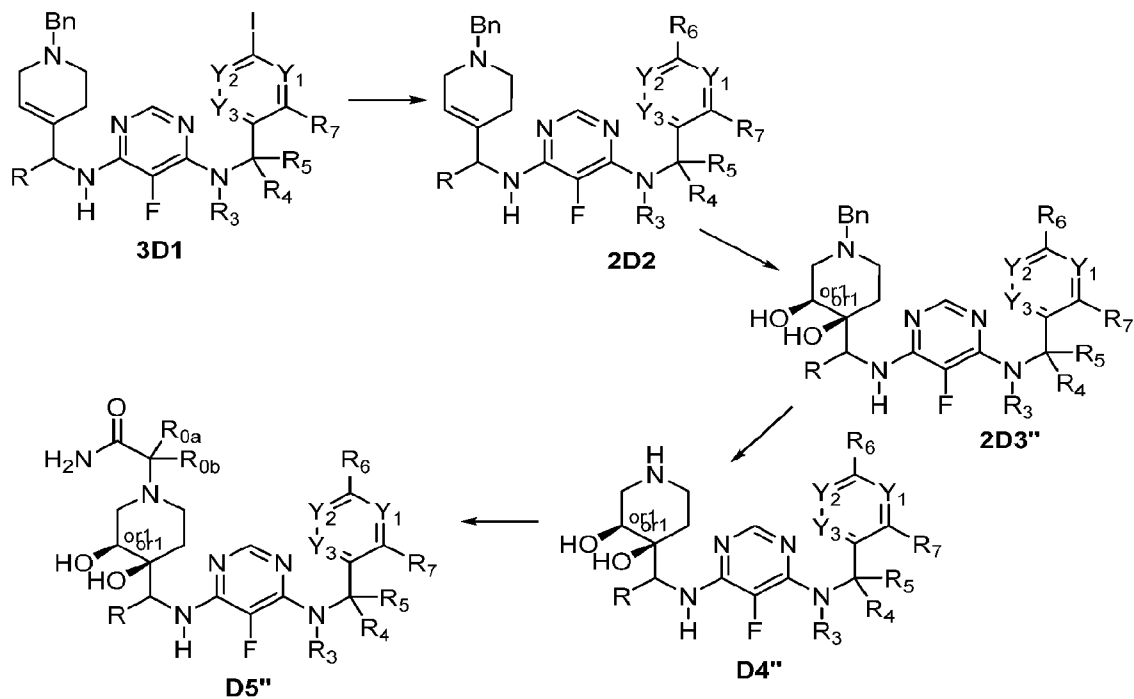
<p>D4-1-1''</p>	<p>A9-1</p>	<p>D5-7-2</p> <p><i>rel-(R)-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide</i> OR <i>rel-(R)-2-((3S,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide</i> 2nd eluting major isomer</p>
<p>D4-2-1''</p>  <p><i>rel-(3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol</i> Enantiomerically enriched</p>	<p>A9-1</p>	<p>D5-8''</p>  <p><i>rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)-2-(pyridin-4-yl)acetamide</i> Enantiomerically enriched</p>

For the D5-7-1 and D5-7-2 compounds only the 2 major isomers were isolated.

General Method 3D

5

General scheme 3D:

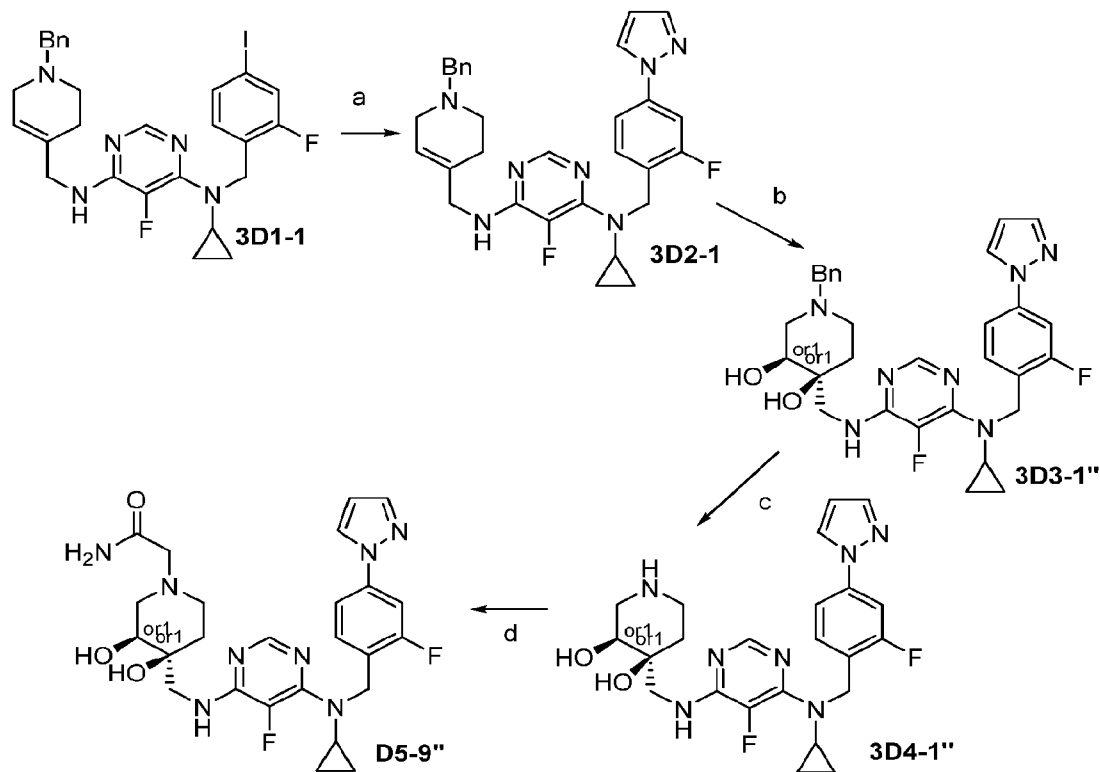


In the cases when R₆ was a heterocyclic ring the **General Method 3D** was used. The synthesis of intermediate **3D1** was accomplished as described in **General Method 2D** using the corresponding iodo-benzylamine. The R₆ group was thereafter introduced by either a standard Suzuki coupling (together with the corresponding boronic acid or boronic ester) or a standard Buchwald N-arylation (together with Cu and the corresponding nitrogen containing heterocyclic ring). Finally, **D5''** derivative was synthesized from **2D2** intermediate according to general method 2D.

10 Example D5-9''

Synthesis of enantiomerically enriched -*rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihdropiperidin-1-yl)acetamide, **D5-9''**:

15

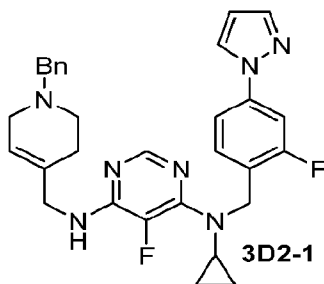


a) 1H-pyrazole, K_2CO_3 , trans-1,2-cyclohexane-1,2-diamine, CuI, NMP. b) $K_3Fe(CN)_6$, K_2CO_3 , (DHQ) $_2$ PHAL, $K_2OsO_2(OH)_4$, $MeSO_2NH_2$. c) Pd/C, H_2 . d) 2-bromoacetamide, Na_2CO_3 .

5

Scheme D5-9''

N^4 -((1-Benzyl-1,2,3,6-tetrahydropyridin-4-yl)methyl)- N^6 -cyclopropyl-5-fluoro- N^6 -(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)pyrimidine-4,6-diamine, 3D2-1



10

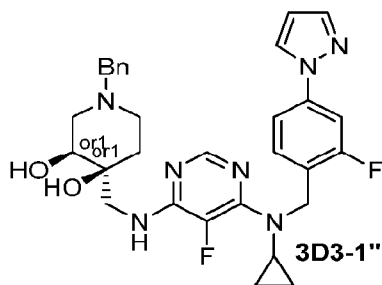
Under an inert atmosphere 1H-pyrazole (77 mg, 1.13 mmol), potassium carbonate (157 mg, 1.13 mmol), trans-1,2-cyclohexane-1,2-diamine (26 mg, 0.23 mmol) and CuI (11 mg, 58 μ mol) were added to a solution of **3D1-1** (334 mg, 0.57 mmol) in NMP (6 mL). The reaction mixture was stirred on at 120°C. H_2O was added and the product was extracted with EA (x3).

The combined organic layer was washed with H₂O, brine, dried (MgSO₄), filtered and concentrated *in vacuo*. The residue was then purified by flash CC (MeOH:DCM=15:85) followed by C18 column (H₂O:MeOH=0:100 to 100:0). **3D2-1** was obtained (116 mg, 0.22 mmol) as a white solid.

5 LCMS: MS Calcd.: 527.6; MS Found: 528 ([M+H]⁺).

Enantiomerically enriched *rel*-(3*R*,4*R*)-1-benzyl-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol, 3D3-1"

10

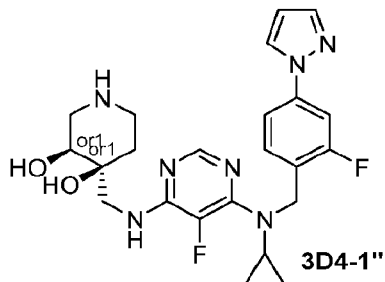


3D2-1 (116 mg, 0.22 mmol) was mixed with tBuOH (2 mL) /H₂O (2 mL) at 0 °C and then the following reagents were added: K₃Fe(CN)₆ (217 mg, 0.66 mmol), K₂CO₃ (91 mg, 0.66 mmol), (DHQ)₂PHAL (5 mg, 6.4 μmol), K₂OsO₂(OH)₄ (2.5 mg, 6.9 μmol) and MeSO₂NH₂ (21 mg, 0.22 mmol). The reaction was stirred on at rt. The reaction was thereafter quenched by the addition of NaNO₂ (167 mg) and H₂O (1 mL), and the mixture was stirred at rt for 2h. The mixture was diluted with H₂O and extracted with DCM (x3), the combined organic layer was washed with H₂O and brine, dried (MgSO₄) and concentrated *in vacuo*. The residue was then purified by flash CC (MeOH:DCM=1:9) to yield **3D3-1''** (58 mg, 0.10 mmol) as a solid.

20 LCMS: MS Calcd.: 561.6; MS Found: 562 ([M+H]⁺).

Enantiomerically enriched *rel*-(3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-3,4-diol, 3D4-1"

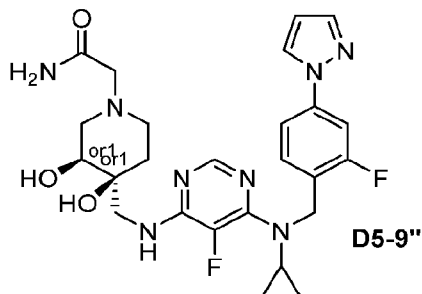
25



5 **3D3-1''** (58 mg, 0.10 mmol) was dissolved in MeOH (10 mL) and 10% Pd/C (15 mg, 13 μ mol) was added. The reaction mixture was stirred under 20 psi of H₂ for 2 days. The mixture was filtered through Celite[®] and the solvent was removed *in vacuo*. The solid thus obtained (27 mg, 57 μ mol) was used for next reaction without further purification.

LCMS: MS Calcd.: 471.5; MS Found: 472 ([M+H]⁺).

10 **Enantiomerically enriched *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, D5-9''**



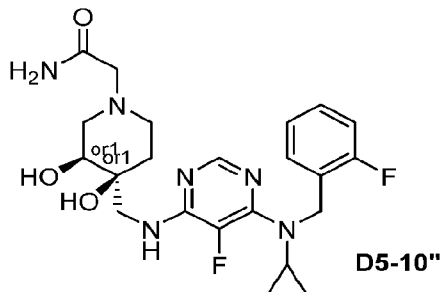
15 Na₂CO₃ (30 mg, 0.28 mmol) and 2-bromoacetamide (9.5 mg, 69 μ mol) were added to a solution of **3D4-1** (27 mg, 57 μ mol) in dry DMF (1 mL). The reaction mixture was stirred on at rt. H₂O was added and the product was extracted with EA (x3). The combined organic layer was washed with H₂O and brine, dried over MgSO₄, filtered and concentrated. The residue was then purified by flash CC (MeOH:DCM=15:85) followed by C18 column (H₂O:MeOH=0:100 to 100:0). Additional purification by preparative HPLC yielded **D5-9''** (10 mg, 19 μ mol) as a white solid.

LCMS: MS Calcd.: 528.6; MS Found: 529 ([M+H]⁺).

20

Example D5-10'' (obtained as a side-product during the synthesis of **D5-9''**):

Enantiomerically enriched *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, D5-10"

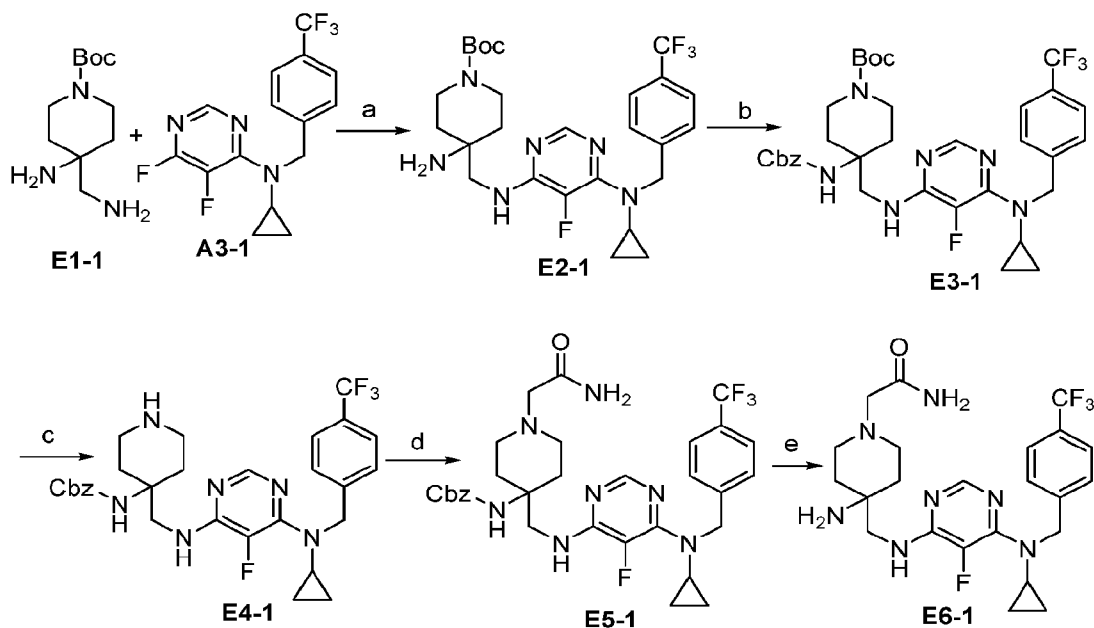


5

General Method E

Example E6-1:

Synthesis of 2-(4-amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide, E6-1.

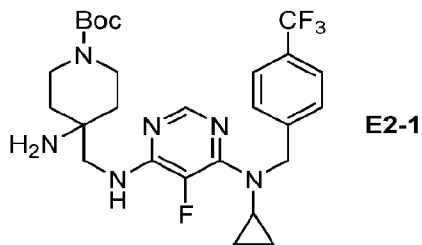


a) DMSO, DIEA. b) CbzCl, K₂CO₃. c) i) TFA, H₂O. d) 2-Bromoacetamide, K₂CO₃. e) Pd/C, H₂.

15

Scheme E6-1

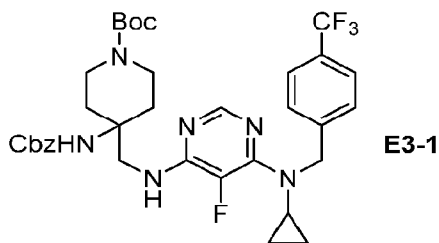
***tert*-Butyl 4-amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-1-carboxylate, E2-1**



5 DIEA (251 mg, 1.95 mmol) was added to a stirred solution of *tert*-butyl 4-amino-4-(aminomethyl)piperidine-1-carboxylate (150 mg, 0.65 mmol) and **A3-1** (215 mg, 1.0 mmol) in DMSO (5 mL) at rt. The reaction was then heated to 95°C for 2.5 h, cooled to rt and extracted with three times with EA. The combined organic phase was dried (Na₂SO₄) filtered and concentrated under reduce pressure. The remaining residue was purified using Flash CC
10 (MeOH:DCM) to afford **E2-1** (280 mg, 80% yield) as colorless oil.

LCMS: MS Calcd.: 538; MS Found: 539 ([M+1]⁺).

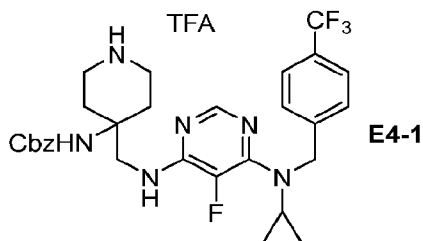
***tert*-Butyl 4-(((benzyloxy)carbonyl)amino)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-1-**
15 **carboxylate, E3-1**



At rt CbzCl (177 mg, 1.04 mmol) was added to a solution of **E2-1** (280 mg, 0.52 mmol) and K₂CO₃ (287 mg, 2.08 mmol) in THF/H₂O (10 mL /10 mL). The reaction was stirred
20 at rt for 16 h before it was extracted with three times with EA. The organic phase was washed with brine (10 mL), dried (Na₂SO₄), filtered and concentrated to afford the title compound **E3-1** as colorless oil (320 mg), which was used without further purification.

LCMS: MS Calcd.: 672; MS Found: 673 ([M+1]⁺).

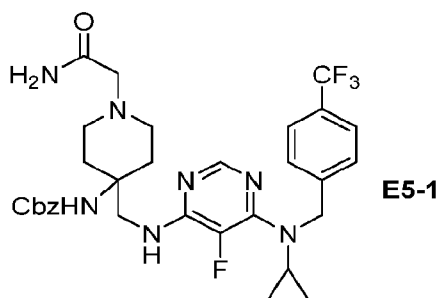
Benzyl (4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-4-yl)carbamate.TFA salt, E4-1



At rt TFA (2 mL) was added to a solution of compound **E3-1** (320 mg, 0.47 mmol) in
 5 DCM (5 mL) and the reaction was stirred at this temperature for 1 h and concentrated to afford
E4-1 as colorless oil (crude 400 mg), which was used without further purification.

LCMS: MS Calcd.: 572; MS Found: 573 ($[M+1]^+$).

Benzyl (1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-4-yl)carbamate, E5-1

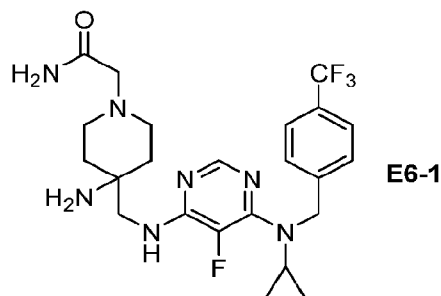


At rt 2-bromoacetamide (131 mg, 0.95 mmol) was added to a solution of **E4-1** (crude
 15 400 mg, 0.47 mmol) and K_2CO_3 (394 mg, 2.85 mmol) in DMF (5 mL) and the reaction was
 stirred at 25 °C for 2 h. The reaction mixture was extracted with three times with EA and the
 organic phase was dried (Na_2SO_4), filtered and concentrated *in vacuo*. The residue was purified
 by Flash CC (MeOH: DCM) to yield **E5-1** (250 mg) as a white solid.

LCMS: MS Calcd.: 529; MS Found: 530 ($[M+1]^+$).

20

2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide, E6-1



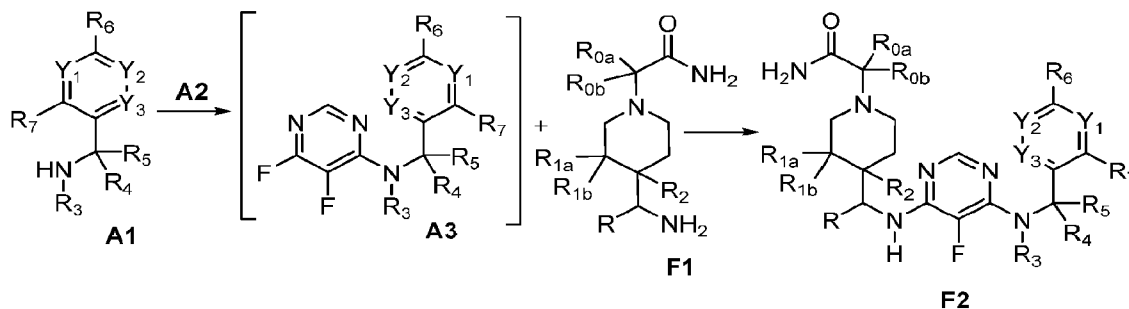
At rt Pd(OH)₂ (80 mg, 20%) was added to a solution of compound **E5-1** (250 mg, 0.47 mmol) in EtOH (5 mL) and the reaction was stirred under H₂ (1 atm) on. The reaction was filtered and concentrated *in vacuo* to afford a crude product. This crude was thereafter purified by prep HPLC to afford **E6-1** (97.5 mg) as a white solid.

LCMS: MS Calcd.: 495; MS Found: 496 ([M+1]⁺).

General method F - One-pot, two step synthesis

10

General Scheme F:



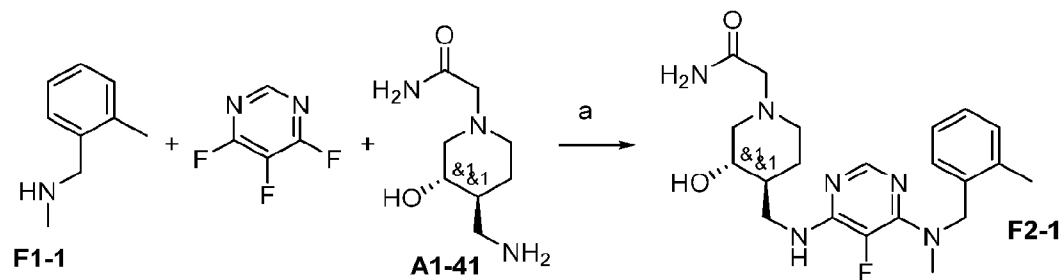
15

The compounds have also been synthesized using a one-pot, two step synthesis procedure. The secondary amine **A1** and 4,5,6-trifluoropyrimidine **A2** were added to a solution of DIEA in DMSO and stirred at rt for 3 h to produce **A3** *in situ*. Thereafter, **F1** was added together with additional DIEA and the reaction was heated at 80°C on. The reaction mixture was cooled to rt and concentrated. The remaining residue was thereafter purified by Prep HPLC to yield **F2** compounds.

Example F2-1

20

Synthesis of *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide (**F2-1**).



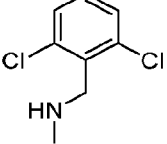
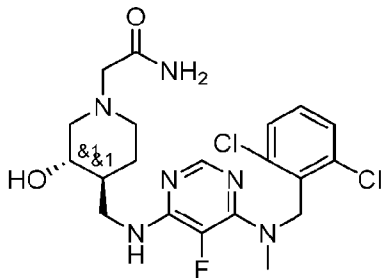
a) i) DIEA, DMSO, rt. ii) DIEA, DMSO, 80 °C.

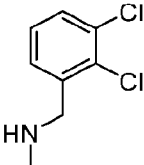
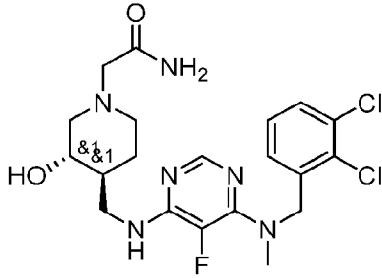
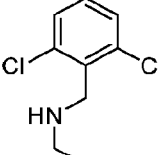
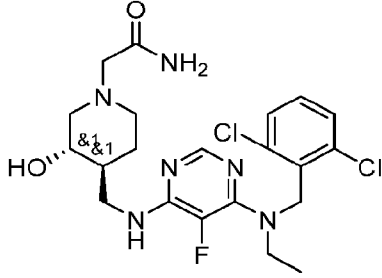
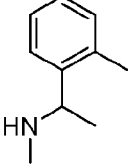
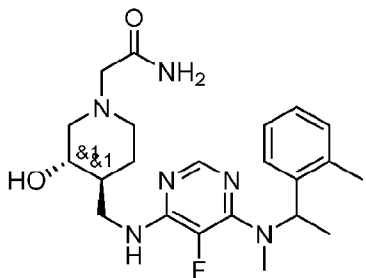
Scheme F2-1

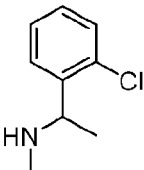
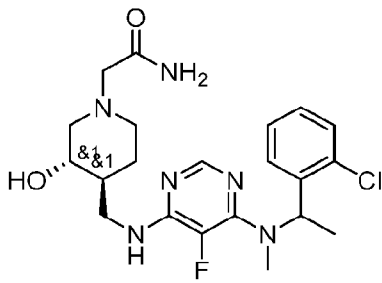
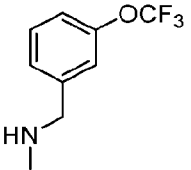
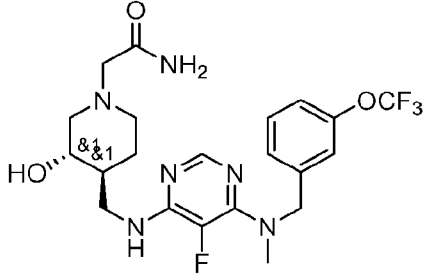
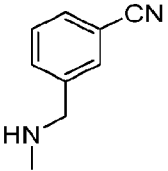
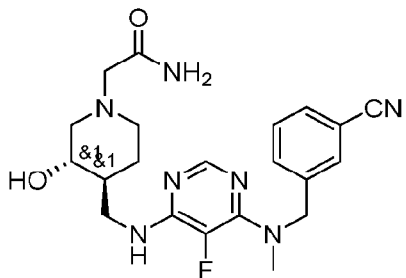
5 A solution of 4,5,6-trifluoropyrimidine (160 mM in DMSO, 1 equivalent) and DIEA (neat, 6 equivalents) were added to a solution of *N*-methyl-1-(*o*-tolyl)methanamine·HCl (**A1-41**), (160 mM in DMSO, 1 equivalent). The reaction was shaken at rt for 3 h. Thereafter, a DMSO solution of *rac*-2-((3*R*,4*R*)-4-(aminomethyl)-3-hydroxypiperidin-1-yl)acetamide hydrochloride (**F1-1**) (160 mM, 1 equivalent) and DIEA (neat, 4 equivalents) were added and
 10 the reaction was shaken at 80°C on. The reaction was then allowed to cool and then concentrated under reduced pressure. Subsequent analysis and purification by HPLC gave **F2-1** (43%).

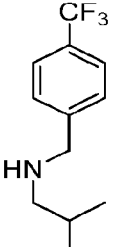
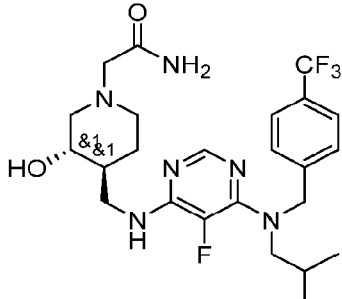
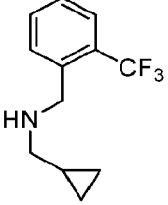
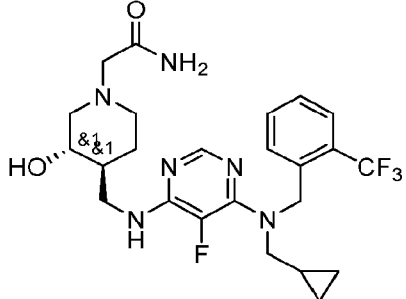
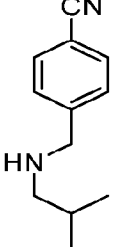
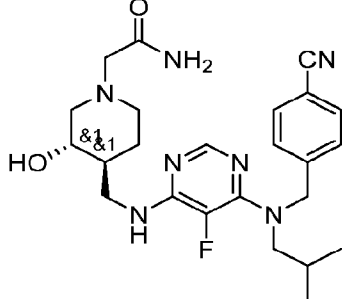
The following compounds were synthesized according to **Method F** using the shown
 15 starting materials (**Table F**).

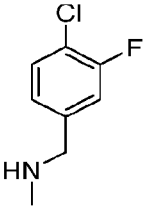
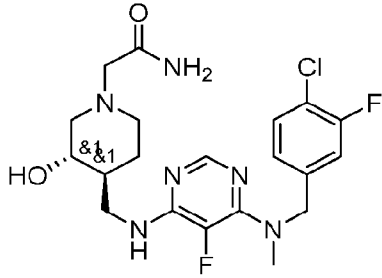
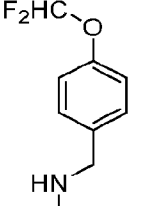
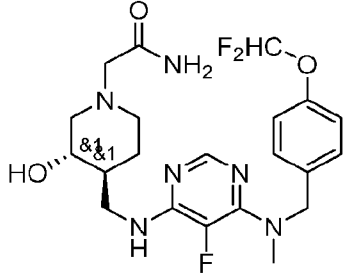
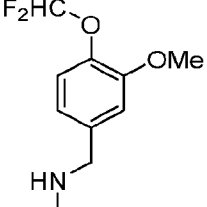
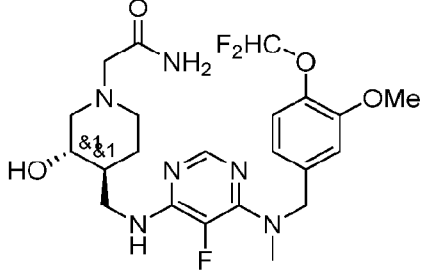
Table F:

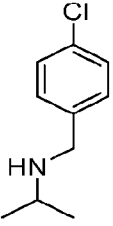
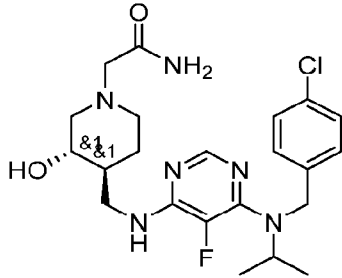
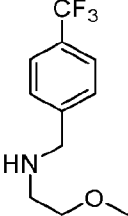
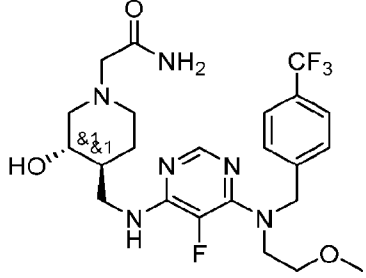
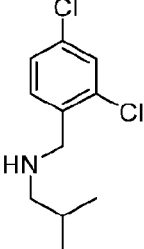
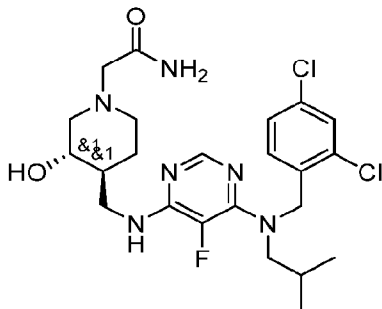
A1	F2
<p data-bbox="268 1406 359 1432">A1-42</p>  <p data-bbox="268 1590 582 1645">1-(2,6-dichlorophenyl)-<i>N</i>-methylmethanamine</p>	<p data-bbox="614 1406 678 1432">F2-2</p>  <p data-bbox="614 1747 1356 1829"><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

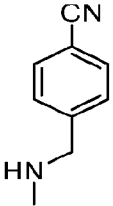
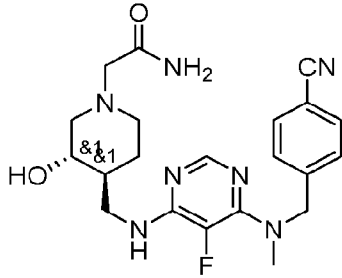
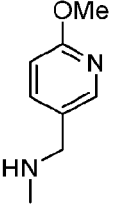
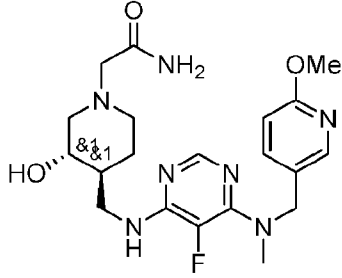
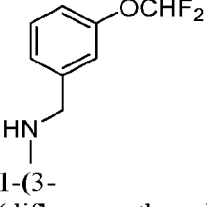
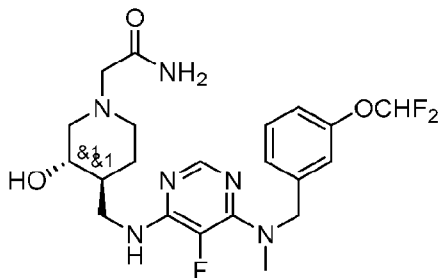
<p>A1-43</p>  <p>1-(2,3-dichlorophenyl)-N-methylmethanamine</p>	<p>F2-3</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-44</p>  <p><i>N</i>-(2,6-dichlorobenzyl)ethanamine</p>	<p>F2-4</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-45</p>  <p><i>N</i>-methyl-1-(<i>o</i>-tolyl)ethan-1-amine</p>	<p>F2-5</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(1-(<i>o</i>-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

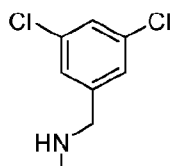
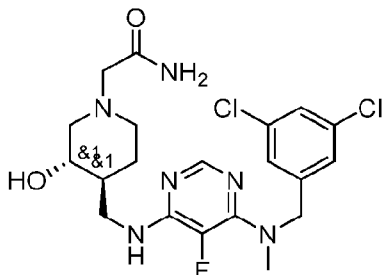
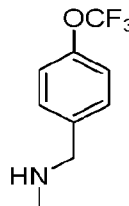
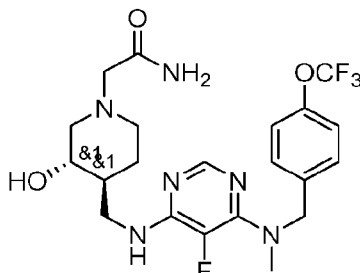
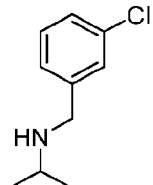
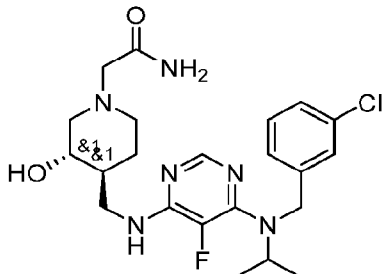
<p>A1-46</p>  <p>1-(2-chlorophenyl)-N-methylethan-1-amine</p>	<p>F2-6</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-47</p>  <p><i>N</i>-methyl-1-(3-(trifluoromethoxy)phenyl)methanamine</p>	<p>F2-7</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-48</p>  <p>3-((methylamino)methyl)benzonitrile</p>	<p>F2-8</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-49</p>  <p>2-methyl-N-(4-(trifluoromethyl)benzyl)propan-1-amine</p>	<p>F2-9</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-50</p>  <p>1-cyclopropyl-N-(2-(trifluoromethyl)benzyl)methanamine</p>	<p>F2-10</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-51</p>  <p>4-((isobutylamino)methyl)benzonitrile</p>	<p>F2-11</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

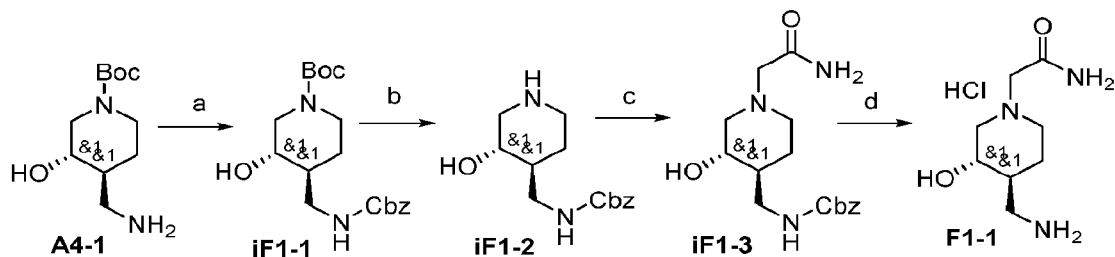
<p>A1-52</p>  <p>1-(4-chloro-3-fluorophenyl)-N-methylmethanamine</p>	<p>F2-12</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-53</p>  <p>1-(4-(difluoromethoxy)phenyl)-N-methylmethanamine</p>	<p>F2-13</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-54</p>  <p>1-(4-(difluoromethoxy)-3-methoxyphenyl)-N-methylmethanamine</p>	<p>F2-14</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-55</p>  <p><i>N</i>-(4-chlorobenzyl)propan-2-amine</p>	<p>F2-15</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-56</p>  <p>2-methoxy-<i>N</i>-(4-(trifluoromethyl)benzyl)ethan-1-amine</p>	<p>F2-16</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-57</p>  <p><i>N</i>-(2,4-dichlorobenzyl)-2-methylpropan-1-amine</p>	<p>F2-17</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-58</p>  <p>4-((methylamino)methyl)benzonitrile</p>	<p>F2-18</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-59</p>  <p>1-(6-methoxypyridin-3-yl)-<i>N</i>-methylmethanamine</p>	<p>F2-19</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-60</p>  <p>1-(3-(difluoromethoxy)phenyl)-<i>N</i>-methylmethanamine</p>	<p>F2-20</p>  <p><i>rac</i>-2-(((3<i>R</i>,4<i>R</i>)-4-(((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

<p>A1-61</p>  <p>1-(3,5-dichlorophenyl)-<i>N</i>-methylmethanamine</p>	<p>F2-21</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-62</p>  <p><i>N</i>-methyl-1-(4-(trifluoromethoxy)phenyl)methanamine</p>	<p>F2-22</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>
<p>A1-63</p>  <p><i>N</i>-(3-chlorobenzyl)propan-2-amine</p>	<p>F2-23</p>  <p><i>rac</i>-2-((3<i>R</i>,4<i>R</i>)-4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide</p>

Synthesis of *rac*-2-((3*R*,4*R*)-4-(aminomethyl)-3-hydroxypiperidin-1-yl)acetamide hydrochloride, F1-1

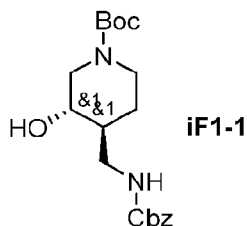


a) CbzCl, NaHCO₃. b) TFA, DCM. c) 2-bromoacetamide, K₂CO₃. d) Pd/C, H₂, HCl.

Scheme F1-1

5

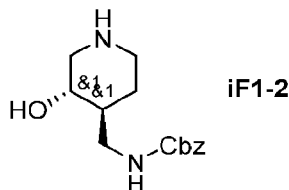
rac-*tert*-Butyl (3*R*,4*R*)-4-(((benzyloxy)carbonyl)amino)methyl)-3-hydroxypiperidine-1-carboxylate, iF1-1



NaHCO₃ (3.4 g, 40.5 mmol) and Cbz-Cl (2.7 g, 16.2 mmol) were added to a solution of **A4-1** (4.6 g, 13.5 mmol) in THF/H₂O (10 mL/3 mL). The reaction was then stirred at 35 °C for 16 h. H₂O (20 mL) was added in and the mixture was extracted with DCM (3 x 30 mL). The combined organic layers were dried (Na₂SO₄), filtered and concentrated in vacuo to afford **iF1-1** as a colorless oil (3.8 g, yield 10.4 mmol), which was used directly in next step without further purification.

15 LCMS: MS Calcd.: 364; MS Found: 365 ([M+1]⁺).

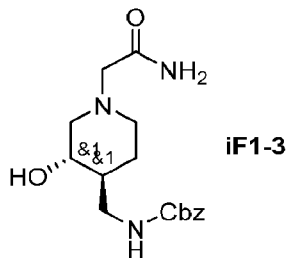
rac-Benzyl (((3*R*,4*R*)-3-hydroxypiperidin-4-yl)methyl)carbamate, iF1-2



TFA (5 mL) was added to a solution of **iF1-1** (3.8 g, 10.7 mmol) in DCM (10 mL) and the reaction was stirred at rt for 5 h. The mixture was concentrated *in vacuo* to yield **iF1-2** as a brown oil (3.2 g). which was used directly in next step without further purification.

LCMS: MS Calcd.: 264; MS Found: 265 ([M+1]⁺).

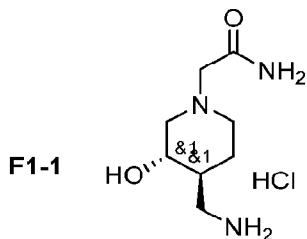
rac*-Benzyl (((3*R*,4*R*)-1-(2-amino-2-oxoethyl)-3-hydroxypiperidin-4-yl)methyl)carbamate, **iF1-3*



5 K_2CO_3 (4.43 g, 32.1 mmol) and 2-bromoacetamide (1.77 g, 12.8 mmol) were added to a solution of **iF1-2** (3.21 g, 10.7 mmol) in DMF (10 mL) and the reaction was stirred at 35 °C for 16 h. Then H_2O (120 mL) was added and the mixture was extracted with EA (3 x 30 mL). The combined organic layers were dried (Na_2SO_4), filtered and concentrated. The residue was purified by HPLC to afford *trans* **iF1-3** as a white solid (500 mg, yield 1.6 mmol), which
10 was used directly in next step without further purification.

LCMS: MS Calcd.: 321; MS Found: 322 ($[M+1]^+$).

rac*-2-(((3*R*,4*R*)-4-(aminomethyl)-3-hydroxypiperidin-1-yl)acetamide hydrochloride, **F1-1*



15 Pd/C (10%, 100 mg) was added to a solution of **iF1-3** (500 g, 1.56 mmol) in MeOH (30 mL) and the reaction was stirred at 35 °C for 3 h under a H_2 atmosphere (50 psi). The mixture was filtered and concentrated under reduced pressure to afford crude **F1-1** as a white solid (300 mg). Then the solid was stirred with HCl in 1,4-dioxane (4 M) to afford the title
20 compound (54 mg, 0.24 mmol) as a white solid.

MS Calcd.: 187; MS Found: 188 ($[M+1]^+$).

1H -NMR (400 MHz, MeOH-*d*4): δ 3.85 (s, 2H), δ 3.70-3.76 (m, 1H), δ 3.38-3.49 (m, 2H), δ 3.08-3.13 (m, 1H), δ 2.96-3.13 (m, 1H), δ 2.86-2.91 (m, 1H), δ 2.77-2.83 (m, 1H), δ 1.95-1.99 (m, 1H), δ 1.81-1.82 (m, 1H), δ 1.51-1.62 (m, 1H).

25

Analytical data

Patent example	¹ H-NMR	<i>m/z</i> (M+H) ⁺	Chiral separation
A7-1	¹ H NMR (400 MHz, CDCl ₃): δ 0.72 – 0.76 (m, 2H), 0.78 – 0.81 (m, 2H), 1.41 – 1.46 (m, 1H), 1.52 – 1.57 (m, 1H), 1.61 – 1.67 (m, 1H), 2.08 – 2.28 (m, 2H), 2.84 – 2.95 (m, 2H), 3.01 – 3.09 (m, 3H), 3.13 (ddd, <i>J</i> = 14.5, 5.7, 2.6 Hz, 1H), 3.33 – 3.36 (m, 1H), 4.14 (ddd, <i>J</i> = 14.6, 7.7, 3.2 Hz, 1H), 4.87 (s, 2H), 5.04 (s, 1H), 5.35 (s, 1H), 5.62 (d, <i>J</i> = 3.1 Hz, 1H), 6.91 (s, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.95 (d, <i>J</i> = 1.3 Hz, 1H).	497	
A7-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.95 (d, <i>J</i> = 1.3 Hz, 1H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 6.91 (s, 1H), 5.62 (d, <i>J</i> = 3.3 Hz, 1H), 5.37 (s, 1H), 5.05 (s, 1H), 4.87 (s, 2H), 4.14 (ddd, <i>J</i> = 14.6, 7.7, 3.2 Hz, 1H), 3.40 – 3.30 (m, 1H), 3.13 (ddd, <i>J</i> = 14.6, 5.7, 2.6 Hz, 1H), 3.09 – 3.01 (m, 3H), 2.95 – 2.82 (m, 2H), 2.26 – 2.10 (m, 2H), 1.68 – 1.51 (m, 2H), 1.49 – 1.38 (m, 1H), 0.83 – 0.77 (m, 2H), 0.75 – 0.69 (m, 2H).	497	Reprosil AMS (MeOH:CO ₂ :NH ₃ =35:65:0.2)
A7-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.95 (d, <i>J</i> = 1.3 Hz, 1H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 6.92 (s, 1H), 5.64 (s, 1H), 5.36 (s, 1H), 5.05 (s, 1H), 4.14 (ddd, <i>J</i> = 14.6, 7.6, 3.2 Hz, 1H), 3.41 – 3.30 (m, 1H), 3.14 (ddd, <i>J</i> = 14.6, 5.7, 2.5 Hz, 1H), 3.10 – 3.00 (m, 3H), 2.94 – 2.84 (m, 2H), 2.27 – 2.10 (m, 2H), 1.69 – 1.63 (m, 1H), 1.49 – 1.39 (m, 1H), 0.84 – 0.77 (m, 2H), 0.75 – 0.69 (m, 2H).	497	Reprosil AMS (MeOH:CO ₂ :NH ₃ =35:65:0.2)
A7-2	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 – 0.80 (m, 4H), 1.33 (qd, <i>J</i> = 12.2, 3.9 Hz, 3H), 1.80 (d, <i>J</i> = 12.9 Hz, 2H), 2.18 (td, <i>J</i> = 11.7, 2.3 Hz, 2H), 2.34 (s, 3H), 2.85 – 2.95 (m, 3H), 2.99 (s, 2H), 3.39 (t, <i>J</i> = 6.4 Hz, 2H), 4.80 (s, 3H), 5.37 (s, 1H), 7.06 (s, 1H), 7.24 (d, <i>J</i> = 7.7 Hz, 1H), 7.39 (d, <i>J</i> = 10.5 Hz, 2H), 7.97 (d, <i>J</i> = 1.5 Hz, 1H).	495	
A7-3-1	¹ H NMR (300 MHz, CD ₃ OD): δ 8.79 (s, 1H), 8.06-8.04 (m, 1H), 7.81 (s, 1H), 7.47 (d, <i>J</i> = 8.4 Hz, 1H), 5.00 (s, 2H), 3.82-3.76 (m, 1H), 3.52-3.45 (m, 1H), 3.13 (s, 2H), 3.11-3.05 (m, 2H), 2.92-2.88 (m, 1H), 2.58-2.45 (m, 1H), 2.36-2.14 (m, 2H), 1.93-1.86 (m, 1H), 1.70-1.57 (m, 1H), 0.85-0.71 (m, 4H).	512	IA (Hex:EtOH=70:30)

A7-3-2	¹ H NMR (300 MHz, CD ₃ OD): δ 8.79 (s, 1H), 8.07-8.04 (m, 1H), 7.81 (s, 1H), 7.47 (d, <i>J</i> = 8.4 Hz, 1H), 4.98 (s, 2H), 3.83-3.76 (m, 1H), 3.52-3.32 (m, 1H), 3.11 (s, 2H), 3.08-3.04 (m, 2H), 2.95-2.90 (m, 1H), 2.58-2.45 (m, 1H), 2.37-2.16 (m, 2H), 1.92-1.86 (m, 1H), 1.69-1.61 (m, 1H), 0.85-0.71 (m, 4H).	512	IA (Hex:EtOH= 70:30)
A7-4-1	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 7.84 (s, 1H), 7.68-7.66 (d, <i>J</i> = 8.0 Hz, 2H), 7.44-7.42 (d, <i>J</i> = 8.0 Hz, 2H), 7.18 (s, 1H), 7.10-7.04 (m, 2H), 4.84 (s, 2H), 4.51-4.38 (m, 1H), 3.69-3.64 (m, 1H), 3.07-3.05 (m, 1H), 2.90 (s, 2H), 2.70-2.67 (d, <i>J</i> = 12.4 Hz, 1H), 2.15-2.00 (m, 2H), 1.80-1.74 (m, 2H), 1.30-1.23 (m, 1H), 0.73-0.68 (m, 4H).	500	IG (CO ₂ :MeOH =70:30)
A7-4-2	¹ H NMR (300 MHz, DMSO- <i>d</i> ₆): δ 8.89 (s, 1H), 8.14-8.11 (d, <i>J</i> = 5.1 Hz, 1H), 7.78 (s, 1H), 7.45-7.43 (d, <i>J</i> = 5.1 Hz, 1H), 7.18 (s, 1H), 7.09 (s, 1H), 7.05-7.04 (m, 1H), 4.92 (s, 2H), 4.54-4.38 (m, 1H), 3.68-3.63 (m, 1H), 3.32-3.23 (m, 1H), 3.07-3.03 (m, 2H), 2.90 (s, 2H), 2.72-2.66 (m, 1H), 2.16-2.11 (m, 1H), 2.06-1.97 (m, 1H), 1.80-1.72 (m, 2H), 1.29-1.21 (m, 1H), 0.74-0.72 (s, 4H).	500	IG (CO ₂ :MeOH =70:30)
A7-5-1	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 7.839-7.835 (d, <i>J</i> = 1.6 Hz, 1H), 7.68-7.66 (d, <i>J</i> = 8.0 Hz, 2H), 7.44-7.42 (d, <i>J</i> = 8.0 Hz, 2H), 7.18 (s, 1H), 7.10-7.04 (m, 2H), 4.84 (s, 2H), 4.51-4.50 (d, <i>J</i> = 4.8 Hz, 1H), 4.39-4.38 (d, <i>J</i> = 4.4 Hz, 1H), 3.09-3.04 (m, 1H), 2.90 (s, 2H), 2.70-2.67 (d, <i>J</i> = 11.2 Hz, 1H), 2.16-2.00 (m, 2H), 1.78-1.74 (m, 2H), 1.30-1.23 (m, 1H), 0.75-0.65 (m, 4H).	499	IG (CO ₂ :MeOH =75:25)
A7-5-2	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 7.84 (s, 1H), 7.68-7.66 (d, <i>J</i> = 8.0 Hz, 2H), 7.44-7.42 (d, <i>J</i> = 8.0 Hz, 2H), 7.18 (s, 1H), 7.10-7.04 (m, 2H), 4.84 (s, 2H), 4.51-4.38 (m, 1H), 3.69-3.64 (m, 1H), 3.07-3.05 (m, 1H), 2.90 (s, 2H), 2.70-2.67 (d, <i>J</i> = 12.4 Hz, 1H), 2.15-2.00 (m, 2H), 1.80-1.74 (m, 2H), 1.30-1.23 (m, 1H), 0.73-0.68 (m, 4H).	499	IG (CO ₂ :McOH =75:25)
A7-6-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.4 Hz, 1H), 7.42 (d, <i>J</i> = 8.4 Hz, 1H), 3.76-3.81 (dd, <i>J</i> = 13.6, 4.8 Hz, 1H), 3.45-3.50 (dd, <i>J</i> = 14.0, 8.4 Hz, 1H), 3.07-3.10 (m, 3H), 2.87-2.93 (m, 2H), 2.45-2.56 (m, 1H), 2.32 (t, <i>J</i> = 11.6 Hz, 1H), 2.16-2.25 (m, 1H), 1.85-1.89 (m, 1H), 1.60-1.67 (m, 1H), 0.76-0.79 (m, 2H), 0.66-0.70 (m, 2H).	517	IC (Hex:EtOH= 70:30)

A7-6-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.0 Hz, 1H), 7.42 (d, <i>J</i> = 8.4 Hz, 1H), 3.76-3.81 (dd, <i>J</i> = 14.0, 5.2 Hz, 1H), 3.45-3.51 (dd, <i>J</i> = 14.0, 8.8 Hz, 1H), 3.05-3.11 (m, 3H), 2.87-2.93 (m, 2H), 2.46-2.57 (m, 1H), 2.32 (t, <i>J</i> = 11.2 Hz, 1H), 2.16-2.25 (m, 1H), 1.85-1.89 (m, 1H), 1.60-1.65 (m, 1H), 0.77-0.79 (m, 2H), 0.68-0.70 (m, 2H).	517	IC (Hex:EtOH=70:30)
A7-7-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.4 Hz, 1H), 7.42 (d, <i>J</i> = 7.6 Hz, 1H), 4.85 (s, 2H), 3.81-3.77 (m, 1H), 3.38-3.35 (m, 1H), 3.07-2.98 (m, 3H), 2.91-2.81 (m, 2H), 2.46-2.41 (m, 1H), 2.31-2.19 (m, 2H), 2.03-1.91 (m, 1H), 1.51-1.46 (m, 1H), 0.81-0.76 (m, 2H), 0.69-0.68 (m, 2H).	549	IA (Hex:IPA:D EA=70:30:0.2)
A7-7-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.4 Hz, 1H), 7.42 (d, <i>J</i> = 8.4 Hz, 1H), 4.85 (s, 2H), 3.81-3.77 (m, 1H), 3.38-3.33 (m, 1H), 3.07-2.98 (m, 3H), 2.92-2.81 (m, 2H), 2.46-2.42 (m, 1H), 2.32-2.19 (m, 2H), 2.03-1.91 (m, 1H), 1.51-1.47 (m, 1H), 0.79-0.76 (m, 2H), 0.71-0.69 (m, 2H).	549	IA (Hex:IPA:D EA=70:30:0.2)
A7-7-3	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.0 Hz, 1H), 7.42 (d, <i>J</i> = 7.6 Hz, 1H), 4.86 (s, 2H), 3.64-3.50 (m, 1H), 3.03 (dd, <i>J</i> = 11.2, 16.4 Hz, 2H), 2.92-2.82 (m, 2H), 2.78-2.72 (m, 2H), 2.61-2.58 (m, 1H), 2.43-2.39 (m, 1H), 2.27-2.26 (m, 1H), 1.83-1.70 (m, 2H), 0.81-0.76 (m, 2H), 0.71-0.67 (m, 2H).	549	IG (Hex:IPA:D EA=80:20:0.2)
A7-7-4	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.0 Hz, 1H), 7.43 (d, <i>J</i> = 8.0 Hz, 1H), 4.86 (s, 2H), 3.61-3.50 (m, 1H), 3.02 (dd, <i>J</i> = 16.4, 20.8 Hz, 2H), 2.92-2.84 (m, 2H), 2.77-2.74 (m, 2H), 2.61-2.59 (m, 1H), 2.43-2.40 (m, 1H), 2.28-2.27 (m, 1H), 1.82-1.73 (m, 2H), 0.81-0.77 (m, 2H), 0.71-0.67 (m, 2H).	549	IG (Hex:IPA:D EA=80:20:0.2)
A7-8	¹ H NMR (600 MHz, DMSO- <i>d</i> ₆): δ 7.81 (d, <i>J</i> = 1.5 Hz, 1H), 7.55 (ABq, <i>J</i> = 150.1, 8.1 Hz, 4H), 7.18 – 7.11 (m, 1H), 7.10 – 7.01 (m, 2H), 4.83 (s, 2H), 3.55 – 3.51 (m, 5H), 2.93 – 2.89 (m, 1H), 2.76 (s, 2H), 2.69 – 2.64 (m, 2H), 2.01 – 1.95 (m, 4H), 1.57 – 1.51 (m, 2H), 0.76 – 0.70 (m, 2H), 0.70 – 0.65 (m, 2H).	540	
A7-9	¹ H NMR (400 MHz, CDCl ₃): δ 0.72 – 0.76 (m, 2H), 0.78 – 0.84 (m, 2H), 1.64 - 1.74 (m, 4H), 2.51 – 2.73 (m, 4H), 2.99 – 3.15 (m, 3H), 3.48 – 3.52 (m, 3H), 4.98 (s, 2H), 5.16 (d, <i>J</i> = 3.2 Hz, 1H), 5.38 (s, 1H), 7.08 (s, 1H), 7.30 (d, <i>J</i> = 8.2 Hz, 1H), 7.76 – 7.94 (m, 2H), 8.81 (s, 1H).	498	

A7-10	^1H NMR (400 MHz, CDCl_3): δ 0.67 – 0.75 (m, 2H), 0.76 – 0.83 (m, 2H), 1.60 – 1.76 (m, 4H), 2.56 – 2.72 (m, 4H), 2.90 (dq, $J = 6.7, 3.1$ Hz, 1H), 3.04 (s, 2H), 3.50 (d, $J = 6.1$ Hz, 2H), 4.70 (s, 1H), 4.86 (s, 2H), 5.11 – 5.17 (m, 1H), 5.37 (s, 1H), 7.07 (s, 1H), 7.35 (d, $J = 8.0$ Hz, 2H), 7.56 (d, $J = 8.1$ Hz, 2H), 7.93 (d, $J = 1.4$ Hz, 1H).	497	
A7-11	^1H NMR (400 MHz, CDCl_3): δ 0.70 – 0.76 (m, 2H), 0.80 – 0.88 (m, 2H), 1.60 – 1.77 (m, 4H), 2.55 – 2.74 (m, 4H), 2.91 (tt, $J = 6.8, 3.4$ Hz, 1H), 3.05 (s, 2H), 3.51 (d, $J = 6.1$ Hz, 2H), 4.50 (s, 1H), 4.89 (s, 2H), 5.12 – 5.22 (m, 1H), 5.37 (s, 1H), 7.07 (s, 1H), 7.62 (d, $J = 8.0$ Hz, 1H), 7.73 – 7.79 (m, 1H), 7.91 (d, $J = 1.4$ Hz, 1H), 8.65 (s, 1H).	498	
A7-12	^1H NMR (300 MHz, $\text{DMSO}-d_6$): δ 10.66 (s, 1H), 7.85 (d, $J = 1.7$ Hz, 1H), 7.30 – 7.15 (m, 1H), 7.15 – 6.99 (m, 2H), 6.86 – 6.73 (m, 3H), 4.65 (s, 2H), 4.53 (s, 2H), 3.60 (dd, $J = 20.1, 6.3$ Hz, 2H), 2.90 – 2.76 (m, 3H), 2.69 – 2.56 (m, 2H), 2.34 – 2.19 (m, 2H), 1.90 – 1.61 (m, 4H), 0.80 – 0.57 (m, 4H).	502	
A7-13	^1H NMR (300 MHz, $\text{DMSO}-d_6$): δ 7.86 (d, $J = 1.7$ Hz, 1H), 7.26 – 7.20 (m, 1H), 7.20 – 7.14 (m, 2H), 7.14 – 7.02 (m, 3H), 4.76 (s, 2H), 3.59 (dd, $J = 20.1, 6.3$ Hz, 2H), 3.31 (s, 3H), 2.90 – 2.78 (m, 3H), 2.69 – 2.56 (m, 2H), 2.35 – 2.16 (m, 2H), 1.90 – 1.60 (m, 4H), 0.80 – 0.59 (m, 4H).	502	
A7-14	^1H NMR (300 MHz, $\text{DMSO}-d_6$) δ 8.92 – 8.84 (m, 1H), 8.12 (ddd, $J = 8.3, 2.4, 0.8$ Hz, 1H), 7.77 (d, $J = 1.8$ Hz, 1H), 7.44 (d, $J = 8.2$ Hz, 1H), 7.12 (d, $J = 21.8$ Hz, 2H), 7.01 – 6.86 (m, 1H), 5.00 (d, $J = 4.9$ Hz, 1H), 4.92 (s, 2H), 3.52 (dt, $J = 13.3, 4.7$ Hz, 1H), 3.42 – 3.35 (m, 1H), 3.31 – 3.23 (m, 1H), 3.11 – 2.96 (m, 1H), 2.92 – 2.75 (m, 3H), 2.70 (d, $J = 11.1$ Hz, 1H), 2.00 – 1.88 (m, 1H), 1.84 (t, $J = 10.0$ Hz, 1H), 1.71 – 1.57 (m, 1H), 1.49 – 1.17 (m, 2H), 0.80 – 0.64 (m, 4H).	498	
A7-14-1	^1H NMR (400 MHz CDCl_3): δ 7.95 (d, $J = 1.2$ Hz, 1H), 7.55 (d, $J = 8.0$ Hz, 2H), 7.37 (d, $J = 8.0$ Hz, 2H), 6.93 (s, 1H), 5.67 (d, $J = 3.6$ Hz, 1H), 5.56 (s, 1H), 5.05-5.15 (m, 1H), 4.87 (s, 2H), 4.09-4.16 (m, 1H), 3.34-3.37 (m, 1H), 3.11-3.17 (m, 1H), 3.02-3.08 (m, 3H), 2.85-2.92 (m, 2H), 2.11-2.24 (m, 2H), 1.44-1.65 (m, 2H), 1.40-1.50 (m, 1H), 0.74-0.82 (m, 2H), 0.72-0.74 (m, 2H)	497	ID (Hex:IPA:D EA=50:50:0. 3)

A7-14-2	¹ H NMR (400 MHz CDCl ₃): δ 7.95 (d, <i>J</i> = 1.2 Hz, 1H), 7.55 (d, <i>J</i> = 8.0 Hz, 2H), 7.37 (d, <i>J</i> = 8.0 Hz, 2H), 6.92 (s, 1H), 5.65 (d, <i>J</i> = 3.2 Hz, 1H), 5.53 (s, 1H), 5.06-5.11 (m, 1H), 4.87 (s, 2H), 4.09-4.16 (m, 1H), 3.30-3.37 (m, 1H), 3.11-3.17 (m, 1H), 3.02-3.08 (m, 3H), 2.85-2.93 (m, 2H), 2.11-2.24 (m, 2H), 1.54-1.66 (m, 2H), 1.43-1.47 (m, 1H), 0.74-0.82 (m, 2H)	497	ID (Hex:IPA:D EA=50:50:0. 3)
A7-15	¹ H NMR (300 MHz, DMSO- <i>d</i> ₆): δ 7.82 (d, <i>J</i> = 1.9 Hz, 1H), 7.37 (d, <i>J</i> = 73.8 Hz, 1H), 7.22 – 7.04 (m, 4H), 6.97 (dd, <i>J</i> = 8.5, 2.4 Hz, 1H), 6.90 – 6.79 (m, 1H), 4.96 (d, <i>J</i> = 4.5 Hz, 1H), 4.80 – 4.64 (m, 3H), 3.50 (dt, <i>J</i> = 13.2, 4.6 Hz, 1H), 3.32 – 3.21 (m, 2H), 2.88 – 2.76 (m, 3H), 2.67 (d, <i>J</i> = 11.2 Hz, 1H), 2.15 – 1.97 (m, 4H), 1.97 – 1.77 (m, 2H), 1.69 – 1.46 (m, 3H), 1.45 – 1.12 (m, 2H).	527	
A7-15-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.80 (d, <i>J</i> =1.6 Hz, 1H), 7.19-7.15 (t, <i>J</i> = 8.4 Hz, 1H), 6.93-6.87 (m, 2H), 7.00-6.63 (t, <i>J</i> =74 Hz, 1H), 4.73 (s, 2H), 4.69-4.67 (m, 1H), 3.61-3.58 (m, 1H), 3.44-3.40 (m, 2H), 2.99-2.96 (m, 3H), 2.83-2.80 (m, 2H), 2.19-1.98 (m,6H), 1.71-1.62 (m, 3H), 1.48-1.44 (m, 2H).	527	IG,Hex:EtO H=70:30
A7-15-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.80 (d, <i>J</i> =1.6 Hz, 1H), 7.19-7.15 (t, <i>J</i> = 8.4 Hz, 1H), 6.93-6.87 (m, 2H), 7.00-6.63 (t, <i>J</i> =74 Hz, 1H), 4.86 (s, 2H), 4.79-4.68 (m, 1H), 3.61-3.58 (m, 1H), 3.45-3.40 (m, 2H), 2.99-2.96 (m, 3H), 2.83-2.80 (m, 2H), 2.19-1.98 (m,6H), 1.73-1.62 (m, 3H), 1.48-1.44 (m, 2H).	527	IG,Hex:EtO H=70:30
A7-16	¹ H NMR (400 MHz, CDCl ₃): δ 7.85 (d, <i>J</i> = 16.0 Hz, 1H), 7.49 (d, <i>J</i> = 8.0 Hz, 2H), 7.24 (d, <i>J</i> = 8.0 Hz, 2H), 6.85 (d, <i>J</i> = 3.2 Hz, 1H), 5.61 (s, 1H), 5.38 (d, <i>J</i> = 3.6 Hz, 1H), 4.88 (s, 1H), 4.79 (s, 2H), 4.76-4.71 (m, 1H), 4.07-4.01 (m, 1H), 3.25-3.23 (m, 1H), 3.04-3.02 (m, 1H), 3.00-2.97 (m, 1H), 2.94 (s, 2H), 2.77 (d, <i>J</i> = 12.0 Hz, 1H), 2.14-1.93 (m, 6H), 1.52-1.30 (m, 2H).	512	
A7-16-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (d, <i>J</i> =1.6 Hz, 1H), 7.56 (d, <i>J</i> = 8.4 Hz, 2H), 7.31 (d, <i>J</i> = 8.0 Hz, 2H), 6.93 (d, <i>J</i> =4.0 Hz, 1H), 5.70 (d, <i>J</i> =2.8 Hz, 1H), 5.55 (d, <i>J</i> =4.0 Hz, 1H), 4.98 (s, 1H), 4.86-4.80 (m, 3H), 4.12-4.07 (m, 1H), 3.31-3.30 (m, 1H), 3.10-3.10 (m, 1H), 3.06-3.02 (m, 1H), 3.01 (s, 2H), 2.83 (s, 1H), 2.19-2.03 (m,6H), 1.66-1.44 (m, 5H).	512	ID (Hex:EtOH= 70:30)

A7-16-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.93 (d, J=1.2 Hz, 1H), 7.56 (d, J = 8.4 Hz, 2H), 7.31 (d, J = 7.6 Hz, 2H), 6.92 (d, J=3.6 Hz, 1H), 5.69 (s, 1H), 5.50 (d, J=3.6 Hz, 1H), 4.96 (s, 1H), 4.86-4.83 (m, 3H), 4.12-4.07 (m, 1H), 3.31-3.30 (m, 1H), 3.07-3.06 (m, 1H), 3.06-3.04 (m, 1H), 3.01 (s, 2H), 2.86-2.83 (m, 1H), 2.21-2.03 (m,6H), 1.69-1.25 (m, 5H).	512	ID (Hex:EtOH= 70:30)
A7-17	¹ H NMR (400 MHz, CDCl ₃): δ 8.82 (s, 2H), 7.91 (s, 1H), 6.93 (br s, 1H), 5.50-5.43 (m, 2H), 5.15 (br s, 1H), 4.88 (dd, J = 22.8, 16.0 Hz, 2H), 4.15-4.09 (m, 1H), 3.33-3.31 (m, 1H), 3.17-3.11 (m, 1H), 3.07-3.03 (m, 1H), 3.02 (s, 2H), 2.97-2.93 (m, 1H), 2.88-2.85 (m, 1H), 2.22-2.10 (m, 2H), 1.65-1.52 (m, 2H), 1.46-1.43 (m, 1H), 0.89-0.86 (m, 2H), 0.76 (s, 2H).	499	
A7-17-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.83 (s, 2H), 7.92 (s, 1H), 6.93 (br s, 1H), 5.54 (br s, 1H), 5.44 (br s, 1H), 5.17 (br s, 1H), 4.88 (dd, J = 21.2 and 16.0 Hz, 2H), 4.16-4.09 (m, 1H), 3.34-3.31 (m, 1H), 3.18-3.12 (m, 1H), 3.07-3.02 (m, 3H), 2.98-2.93 (m, 1H), 2.89-2.86 (m, 1H), 2.23-2.11 (m, 2H), 1.66-1.44 (m, 3H), 0.90-0.88 (m, 2H), 0.77 (s, 2H).	499	IC (CO ₂ :MeOH :DEA=70:30 :0.3)
A7-17-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.83 (s, 2H), 7.92 (s, 1H), 6.94 (br s, 1H), 5.65 (br s, 1H), 5.44 (br s, 1H), 5.19 (br s, 1H), 4.88 (dd, J = 19.6 and 16.0 Hz, 2H), 4.15-4.09 (m, 1H), 3.36-3.30 (m, 1H), 3.18-3.12 (m, 1H), 3.07-3.02 (m, 3H), 2.99-2.93 (m, 1H), 2.88-2.85 (m, 1H), 2.23-2.08 (m, 2H), 1.66-1.44 (m, 3H), 0.90-0.87 (m, 2H), 0.77 (s, 2H).	499	IC (CO ₂ :MeOH :DEA=70:30 :0.3)
A7-18	¹ H NMR (400 MHz, CDCl ₃): δ 8.76 (s, 2H), 7.88 (s, 1H), 6.92 (br s, 1H), 5.49-5.41 (m, 2H), 5.07-5.05 (m, 1H), 4.87 (s, 2H), 4.78-4.74 (m, 1H), 4.13-4.07 (m, 1H), 3.30-3.27 (m, 1H), 3.14-3.08 (m, 1H), 3.05-3.01 (m, 3H), 2.87-2.84 (m, 1H), 2.25-2.05 (m, 6H), 1.60-1.54 (m, 2H), 1.51-1.33 (m, 2H).	513	
A7-18-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.77 (s, 2H), 7.89 (s, 1H), 6.95 (br s, 1H), 5.54 (br s, 1H), 5.43 (br s, 1H), 5.07 (br s, 1H), 4.88 (s, 2H), 4.79-4.75 (m, 1H), 4.14-4.08 (m, 1H), 3.33-3.28 (m, 1H), 3.15-3.09 (m, 1H), 3.06-3.03 (m, 3H), 2.88-2.85 (m, 1H), 2.26-2.06 (m, 6H), 1.66-1.39 (m, 4H)	513	ID (Hex:IPA:D EA=40:60:0. 3)
A7-18-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.77 (s, 2H), 7.89 (s, 1H), 6.93 (br s, 1H), 5.52 (br s, 1H), 5.43 (br s, 1H), 5.08 (br s, 1H), 4.88 (s, 2H), 4.79-4.75 (m, 1H), 4.14-4.08 (m, 1H), 3.33-3.29 (m, 1H), 3.15-3.09 (m, 1H), 3.06-3.02 (m, 3H), 2.88-2.85 (m, 1H), 2.26-2.06 (m, 6H), 1.66-1.39 (m, 4H)	513	ID (Hex:IPA:D EA=40:60:0. 3)

A7-19	¹ H NMR (400 MHz, CD ₃ OD): δ 7.83 (d, <i>J</i> = 1.6 Hz, 1H), 7.59 (d, <i>J</i> = 8.4 Hz, 1H), 7.46 (d, <i>J</i> = 8.0 Hz, 1H), 4.84-4.81 (m, 1H), 4.79 (s, 2H), 3.66-3.61 (m, 1H), 3.47-3.41 (m, 2H), 3.02-2.99 (m, 3H), 2.84 (d, <i>J</i> = 10.4 Hz, 2H), 2.13-2.00 (m, 2H), 1.75-1.73 (m, 2H), 1.49-1.47 (m, 2H), 1.23 (d, <i>J</i> = 6.8 Hz, 6H).	442	
A7-19-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.83 (d, <i>J</i> = 2.0 Hz, 1 H), 7.60 (d, <i>J</i> = 8.4 Hz, 1 H), 7.46 (d, <i>J</i> = 8.4 Hz, 1 H), 4.84-4.81 (m, 1 H), 4.79 (s, 2 H), 3.66-3.61 (m, 1 H), 3.47-3.41 (m, 2 H), 3.02-2.99 (m, 3 H), 2.84 (d, <i>J</i> = 10.4 Hz, 2 H), 2.14-2.00 (m, 2 H), 1.76-1.73 (m, 2 H), 1.51-1.47 (m, 2 H), 1.24 (d, <i>J</i> = 6.4 Hz, 6 H)	442	IG (Hex:etOH= 60:40)
A7-19-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.83 (d, <i>J</i> = 2.0 Hz, 1 H), 7.60 (d, <i>J</i> = 8.4 Hz, 1 H), 7.46 (d, <i>J</i> = 8.4 Hz, 1 H), 4.84-4.81 (m, 1 H), 4.79 (s, 2 H), 3.66-3.61 (m, 1 H), 3.47-3.41 (m, 2 H), 3.02-2.99 (m, 3 H), 2.84 (d, <i>J</i> = 10.4 Hz, 2 H), 2.14-2.00 (m, 2 H), 1.76-1.73 (m, 2 H), 1.51-1.47 (m, 2 H), 1.24 (d, <i>J</i> = 6.4 Hz, 6 H)	442	IG (Hex:etOH= 60:40)
A7-20	¹ H NMR (400 MHz, CD ₃ OD): δ 7.82 (d, <i>J</i> = 2.0 Hz, 1H), 7.61 (d, <i>J</i> = 8.0 Hz, 2H), 7.43 (d, <i>J</i> = 8.4 Hz, 2H), 4.84 (s, 2H), 3.60 (dd, <i>J</i> = 13.6, 4.8 Hz, 1H), 3.48-3.41 (m, 2H), 3.13 (d, <i>J</i> = 3.6 Hz, 3H), 3.00-2.96 (m, 3H), 2.82 (d, <i>J</i> = 10.0 Hz, 1H), 2.14-2.09 (m, 1H), 1.99 (t, <i>J</i> = 10.0 Hz, 1H), 1.76-1.73 (m, 1H), 1.51-1.48 (m, 2H).	471	
A7-20-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.73 (d, <i>J</i> = 1.6 Hz, 1H), 7.51 (d, <i>J</i> = 8.4 Hz, 2H), 7.33 (d, <i>J</i> = 8.0 Hz, 2H), 4.75 (s, 2H), 3.51 (dd, <i>J</i> = 14.0, 5.2 Hz, 1H), 3.39 - 3.32 (m, 2H), 3.04 (d, <i>J</i> = 3.6 Hz, 3H), 2.91 - 2.88 (m, 3H), 2.72 (d, <i>J</i> = 10.0 Hz, 1H), 2.05 -2.00 (m, 1H), 1.92 (t, <i>J</i> = 10.0 Hz, 1H), 1.65 - 1.63 (m, 1H), 1.41 - 1.38 (m, 2H)	471	IE (Hex:EtOH= 60:40)
A7-20-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.73 (d, <i>J</i> = 1.6 Hz, 1H), 7.52 (d, <i>J</i> = 8.4 Hz, 2H), 7.33 (d, <i>J</i> = 8.4 Hz, 2H), 4.75 (s, 2H), 3.51 (dd, <i>J</i> = 13.6, 4.8 Hz, 1H), 3.39 - 3.32 (m, 2H), 3.04 (d, <i>J</i> = 3.6 Hz, 3H), 2.91 - 2.87 (m, 3H), 2.73 (d, <i>J</i> = 9.6 Hz, 1H), 2.05 - 2.00 (m, 1H), 1.90 (t, <i>J</i> = 10.4 Hz, 1H), 1.66 - 1.63 (m, 1H), 1.41 - 1.37 (m, 2H).	471	IE (Hex:EtOH= 60:40)

A7-21	¹ H NMR (400 MHz, CD ₃ OD): δ 7.71 (d, <i>J</i> = 1.2 Hz, 1H), 7.50 (d, <i>J</i> = 8.4 Hz, 2H), 7.33 (d, <i>J</i> = 8.4 Hz, 2H), 4.77 (s, 2H), 3.51 (dd, <i>J</i> = 13.2, 4.8 Hz, 1H), 3.49-3.44 (m, 2H), 3.38-3.30 (m, 2H), 2.91-2.85 (m, 3H), 2.72 (d, <i>J</i> = 11.2 Hz, 1H), 2.05-1.99 (m, 1H), 1.89 (t, <i>J</i> = 10.0 Hz, 1H), 1.65-1.63 (m, 1H), 1.41-1.36 (m, 2H), 1.09 (t, <i>J</i> = 6.8 Hz, 3H).	485	
A7-21-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.71 (d, <i>J</i> = 1.6 Hz, 1H), 7.50 (d, <i>J</i> = 8.4 Hz, 2H), 7.34 (d, <i>J</i> = 8.4 Hz, 2H), 4.77 (s, 2H), 3.51 (dd, <i>J</i> = 13.6, 5.2 Hz, 1H), 3.49 - 3.44 (m, 2H), 3.39 - 3.30 (m, 2H), 2.91 - 2.88 (m, 3H), 2.72 (d, <i>J</i> = 10.0 Hz, 1H), 2.05 - 2.02 (m, 1H), 1.89 (t, <i>J</i> = 10.0 Hz, 1H), 1.66 - 1.63 (m, 1H), 1.41 - 1.36 (m, 2H), 1.09 (t, <i>J</i> = 6.8 Hz, 3H).	485	ID(Hex:IPA:DEA)=50:50:0.3
A7-21-2	¹ H NMR (400 MHz, CD ₃ OD) δ 7.71 (d, <i>J</i> = 1.6 Hz, 1H), 7.50 (d, <i>J</i> = 8.0 Hz, 2H), 7.33 (d, <i>J</i> = 8.0 Hz, 2H), 4.77 (s, 2H), 3.51 (dd, <i>J</i> = 14.0, 4.8 Hz, 1H), 3.49 - 3.44 (m, 2H), 3.38 - 3.30 (m, 2H), 2.91 - 2.88 (m, 3H), 2.72 (d, <i>J</i> = 11.2 Hz, 1H), 2.05 - 2.00 (m, 1H), 1.90 (t, <i>J</i> = 10.0 Hz, 1H), 1.66 - 1.63 (m, 1H), 1.41 - 1.36 (m, 2H), 1.08 (t, <i>J</i> = 6.8 Hz, 3H)	485	ID(Hex:IPA:DEA)=50:50:0.3
A7-22	¹ H NMR (400 MHz, CDCl ₃): δ 7.94 (s, 1H), 7.37-7.30 (m, 3H), 6.94 (br s, 1H), 5.66 (br s, 1H), 5.51 (br s, 1H), 5.08 (br s, 1H), 4.90 (s, 2H), 4.16-4.10 (m, 1H), 3.38-3.33 (m, 1H), 3.16-3.11 (m, 1H), 3.08-3.04 (m, 3H), 2.96-2.87 (m, 2H), 2.24-2.12 (m, 2H), 1.65-1.55 (m, 2H), 1.46-1.41 (m, 1H), 0.84-0.74 (m, 4H).	515	
A7-22-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.94 (s, 1H), 7.34-7.30 (m, 3H), 6.93 (br s, 1H), 5.67 (br s, 1H), 5.53 (br s, 1H), 5.08 (br s, 1H), 4.91 (s, 2H), 4.17-4.10 (m, 1H), 3.35-3.31 (m, 1H), 3.16-3.03 (m, 4H), 2.94-2.86 (m, 2H), 2.24-2.11 (m, 2H), 1.63-1.55 (m, 2H), 1.46-1.43 (m, 1H), 0.82-0.79 (m, 2H), 0.74-0.73 (m, 2H)	515	ID (Hex:EtOH:DEA)=80:20:0.3)
A7-22-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.94 (s, 1H), 7.34-7.30 (m, 3H), 6.93 (br s, 1H), 5.66 (br s, 1H), 5.50 (br s, 1H), 5.08 (br s, 1H), 4.91 (s, 2H), 4.17-4.10 (m, 1H), 3.37-3.32 (m, 1H), 3.16-3.03 (m, 4H), 2.95-2.86 (m, 2H), 2.24-2.11 (m, 2H), 1.62-1.55 (m, 2H), 1.46-1.41 (m, 1H), 0.82-0.78 (m, 2H), 0.74-0.73 (m, 2H)	515	ID (Hex:EtOH:DEA)=80:20:0.3)

A7-23	¹ H NMR (400 MHz, CDCl ₃): δ 8.61 (s, 1H), 7.91 (d, <i>J</i> = 1.2 Hz, 1H), 7.70 (d, <i>J</i> = 8.0 Hz, 1H), 7.63 (d, <i>J</i> = 8.4 Hz, 1H), 6.92 (d, <i>J</i> = 1.2 Hz, 1H), 5.56 (d, <i>J</i> = 1.6 Hz, 1H), 5.41 (d, <i>J</i> = 6.4 Hz, 1H), 5.00-4.98 (m, 1H), 4.89 (s, 1H), 4.81-4.77 (m, 1H), 4.16-4.10 (m, 1H), 3.31-3.29 (m, 1H), 3.13-3.02 (m, 4H), 2.86 (d, <i>J</i> = 11.2 Hz, 1H), 2.22-2.01 (m, 6H), 1.71-1.66 (m, 2H), 1.57-1.49 (m, 1H), 1.44-1.38 (m, 1H).	512	ID (Hex:IPA=5 0:50)
A7-23-1	¹ H NMR (400 MHz, CDCl ₃): 8.60 (d, <i>J</i> = 1.2 Hz, 1 H), 7.91 (d, <i>J</i> = 1.2 Hz, 1 H), 7.70 (d, <i>J</i> = 8.0 Hz, 1 H), 7.62 (d, <i>J</i> = 8.0 Hz, 1 H), 6.93 (d, <i>J</i> = 2.8 Hz, 1 H), 5.57 (d, <i>J</i> = 3.6 Hz, 1 H), 5.43 (s, 1 H), 5.11-4.97 (m, 1 H), 4.89 (s, 2 H), 4.81-4.77 (m, 1 H), 4.16-4.10 (m, 1 H), 3.31-3.29 (m, 1 H), 3.13-3.02 (m, 4 H), 2.86 (d, <i>J</i> = 11.2 Hz, 1 H), 2.22-2.01 (m, 6 H), 1.71-1.66 (m, 2 H), 1.57-1.49 (m, 2 H), 1.44-1.41 (m, 1 H)	512	ID (Hex:IPA=5 0:50)
A7-23-2	¹ H NMR (400 MHz, CDCl ₃) 8.60 (d, <i>J</i> = 1.2 Hz, 1 H), 7.91 (d, <i>J</i> = 1.2 Hz, 1 H), 7.70 (d, <i>J</i> = 8.0 Hz, 1 H), 7.62 (d, <i>J</i> = 8.0 Hz, 1 H), 6.93 (d, <i>J</i> = 2.8 Hz, 1 H), 5.57 (d, <i>J</i> = 3.6 Hz, 1 H), 5.43 (s, 1 H), 5.11-4.97 (m, 1 H), 4.89 (s, 2 H), 4.81-4.77 (m, 1 H), 4.16-4.10 (m, 1 H), 3.31-3.29 (m, 1 H), 3.13-3.02 (m, 4 H), 2.86 (d, <i>J</i> = 11.2 Hz, 1 H), 2.22-2.01 (m, 6 H), 1.71-1.66 (m, 2 H), 1.57-1.49 (m, 2 H), 1.44-1.41 (m, 1 H)	512	ID (Hex:IPA=5 0:50)
A7-24	¹ H NMR (400 MHz, CDCl ₃): δ 8.81 (s, 1H), 7.91 (d, <i>J</i> = 1.2 Hz, 1H), 7.87-7.85 (m, 1H), 7.32 (d, <i>J</i> = 8.4 Hz, 1H), 6.92 (s, 1H), 5.63 (s, 1H), 5.49 (d, <i>J</i> = 3.2 Hz, 1H), 5.00-4.98 (m, 1H), 4.96 (s, 2H), 4.89-4.84 (m, 1H), 4.15-4.09 (m, 1H), 3.33-3.31 (m, 1H), 3.12-3.10 (m, 1H), 3.08-3.04 (m, 1H), 3.02 (s, 2H), 2.85 (d, <i>J</i> = 12.0 Hz, 1H), 2.22-2.03 (m, 6H), 1.68-1.48 (m, 2H).	512	
A7-24-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.81 (d, <i>J</i> = 0.8 Hz, 1H), 7.91 (d, <i>J</i> = 1.6 Hz, 1H), 7.87-7.85 (m, 1H), 7.33 (d, <i>J</i> = 8.4 Hz, 1H), 6.93 (d, <i>J</i> = 0.4 Hz, 1H), 5.64 (d, <i>J</i> = 3.2 Hz, 1H), 5.57 (d, <i>J</i> = 4.0 Hz, 1H), 5.01-4.96 (m, 1H), 4.96 (s, 2H), 4.89-4.84 (m, 1H), 4.12-4.09 (m, 1H), 3.30 (d, <i>J</i> = 3.6 Hz, 1H), 3.12-3.05 (m, 2H), 3.01 (s, 2H), 2.85 (d, <i>J</i> = 11.6 Hz, 1H), 2.21-2.03 (m, 6H), 1.59-1.40 (m, 2H).	512	IG (Hex:EtOH= 40:60)
A7-24-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.81 (s, 1H), 7.92 (d, <i>J</i> = 1.2 Hz, 1H), 7.87-7.85 (m, 1H), 7.33 (d, <i>J</i> = 8.0 Hz, 1H), 6.93 (d, <i>J</i> = 4.0 Hz, 1H), 5.65 (s, 1H), 5.54 (d, <i>J</i> = 3.6 Hz, 1H), 5.00-4.96 (m, 1H), 4.96 (s, 2H), 4.89-4.84 (m, 1H), 4.12-4.09 (m, 1H), 3.31 (d, <i>J</i> = 4.4 Hz, 1H), 3.12-3.04 (m, 2H), 3.02 (s, 2H), 2.85 (d, <i>J</i> = 11.6 Hz, 1H), 2.21-2.03 (m, 6H), 1.60-1.40 (m, 2H).	512	IG (Hex:EtOH= 40:60)

A7-25	¹ H NMR (400 MHz, CDCl ₃): δ 8.57 (s, 1H), 7.94 (d, <i>J</i> = 0.8 Hz, 1H), 7.76-7.74 (m, 1H), 7.58 (d, <i>J</i> = 8.0 Hz, 1H), 6.95 (m, 1H), 6.63 (t, <i>J</i> = 55.6 Hz, 1H), 5.55 (d, <i>J</i> = 8.4 Hz, 1H), 5.10 (s, 1H), 4.88 (dd, <i>J</i> = 14.8, 23.2 Hz, 2H), 4.17-4.11 (m, 1H), 3.16-3.11 (m, 1H), 3.08-3.05 (m, 2H), 3.03 (s, 2H), 2.92-2.87 (m, 2H), 2.23-2.11 (m, 2H), 1.65-1.52 (m, 2H), 1.47-1.41 (m, 1H), 0.85-0.80 (m, 2H), 0.75-0.74 (m, 2H).	480	
A7-25-1	¹ H NMR (400 MHz, CD ₃ OD): δ 8.44 (s, 1 H), 7.80-7.77 (m, 1 H), 7.75 (d, <i>J</i> = 1.2 Hz, 1 H), 7.55 (d, <i>J</i> = 8.0 Hz, 1 H), 6.60 (t, <i>J</i> = 55.2 Hz, 1 H), 4.80 (s, 1 H), 3.56-3.51 (m, 1 H), 3.38-3.34 (m, 2 H), 2.91-2.87 (m, 3 H), 2.85-2.81 (m, 1 H), 2.74-2.72 (m, 1 H), 2.04-2.00 (m, 1 H), 1.94-1.89 (m, 1H) 1.66-1.64 (m, 1 H), 1.38-1.36 (m, 2 H), 0.75-0.70 (m, 2 H), 0.62-0.60 (m, 2 H)	480	AD (Hex:EtOH: DEA=60:40: 0.3)
A7-25-2	¹ H NMR (400 MHz, CD ₃ OD): δ 8.44 (s, 1 H), 7.80-7.77 (m, 1 H), 7.74 (d, <i>J</i> = 1.6 Hz, 1 H), 7.54 (d, <i>J</i> = 8.4 Hz, 1 H), 6.60 (t, <i>J</i> = 55.2 Hz, 1 H), 4.79 (s, 1 H), 3.52-3.51 (m, 1 H), 3.38-3.35 (m, 2 H), 2.90-2.87 (m, 3 H), 2.83-2.82 (m, 1 H), 2.74-2.72 (m, 1 H), 2.00-1.99 (m, 1 H), 1.94-1.89 (m, 1H) 1.65-1.61 (m, 1 H), 1.38-1.36 (m, 2 H), 0.75-0.70 (m, 2 H), 0.62-0.60 (m, 2 H)	480	AD (Hex:EtOH: DEA=60:40: 0.3)
A7-26	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (s, 1H), 7.52-7.31 (m, 3H), 6.96 (br s, 1H), 5.75 (br s, 1H), 5.48 (br s, 1H), 4.98 (br s, 1H), 4.91-4.81 (m, 2H), 4.16-4.10 (m, 1H), 3.63-3.50 (m, 2H), 3.34-3.33 (m, 1H), 3.13-3.04 (m, 4H), 2.88-2.86 (m, 1H), 2.24-2.12 (m, 2H), 1.77-1.50 (m, 2H), 1.45-1.39 (m, 1H), 1.24 (t, <i>J</i> = 7.2 Hz, 3H).	503	
A7-26-1	¹ H NMR (400 MHz, CDCl ₃): 7.92 (s, 1H), 7.40-7.31 (m, 3H), 6.94 (br s, 1H), 5.75 (br s, 1H), 5.47 (br s, 1H), 4.98 (s, 1H), 4.87 (dd, <i>J</i> = 22.0, 16.8 Hz, 2H), 4.17-4.11 (m, 1H), 3.61-3.53 (m, 2H), 3.34-3.31 (m, 1H), 3.13-3.03 (m, 4H), 2.88-2.85 (m, 1H), 2.23-2.11 (m, 2H), 1.61-1.52 (m, 2H), 1.44-1.42 (m, 1H), 1.24 (t, <i>J</i> = 6.8 Hz, 3H)	503	ID (Hex:EtOH: DEA=80:20: 0.3)
A7-26-2	¹ H NMR (400 MHz, CDCl ₃): 7.92 (s, 1H), 7.41-7.31 (m, 3H), 6.94 (br s, 1H), 5.75 (br s, 1H), 5.49 (br s, 1H), 4.98 (s, 1H), 4.87 (dd, <i>J</i> = 22.0, 17.2 Hz, 2H), 4.17-4.10 (m, 1H), 3.61-3.53 (m, 2H), 3.35-3.30 (m, 1H), 3.13-3.03 (m, 4H), 2.88-2.85 (m, 1H), 2.23-2.11 (m, 2H), 1.62-1.53 (m, 2H), 1.45-1.42 (m, 1H), 1.24 (t, <i>J</i> = 6.8 Hz, 3H)	503	ID (Hex:EtOH: DEA=80:20: 0.3)

A7-27	¹ H NMR (400 MHz, CDCl ₃): δ 8.82 (s, 1H), 7.91 (s, 1H), 7.87 (d, <i>J</i> = 8.4 Hz, 1H), 7.40 (d, <i>J</i> = 8.0 Hz, 1H), 6.93 (br s, 1H), 5.73 (br s, 1H), 5.51 (br s, 1H), 4.99-4.87 (m, 3H), 4.16-4.10 (m, 1H), 3.67-3.59 (m, 2H), 3.35-3.30 (m, 1H), 3.12-3.02 (m, 4H), 2.88-2.85 (m, 1H), 2.23-2.11 (m, 2H), 1.64-1.52 (m, 2H), 1.44-1.39 (m, 1H), 1.25 (t, <i>J</i> = 8.4 Hz, 3H).	486	
A7-27-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.82 (s, 1H), 7.91-7.86 (m, 2H), 7.40 (d, <i>J</i> = 8.0 Hz, 1H), 6.97 (br s, 1H), 5.63 (br s, 1H), 5.00-4.87 (m, 3H), 4.17-4.10 (m, 1H), 3.67-3.59 (m, 2H), 3.36-3.30 (m, 1H), 3.12-3.00 (m, 4H), 2.88-2.86 (m, 1H), 2.24-2.12 (m, 2H), 1.63-1.53 (m, 2H), 1.45-1.32 (m, 1H), 1.25 (t, <i>J</i> = 6.8 Hz, 3H)	486	IE (Hex:EtOH: DEA=60:40: 0.3)
A7-27-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.82 (s, 1H), 7.91-7.86 (m, 2H), 7.40 (d, <i>J</i> = 8.4 Hz, 1H), 6.97 (br s, 1H), 5.76 (br s, 1H), 5.65 (br s, 1H), 5.00-4.87 (m, 3H), 4.17-4.10 (m, 1H), 3.70-3.57 (m, 2H), 3.36-3.30 (m, 1H), 3.12-2.98 (m, 4H), 2.88-2.85 (m, 1H), 2.24-2.11 (m, 2H), 1.63-1.50 (m, 2H), 1.44-1.31 (m, 2H), 1.25 (t, <i>J</i> = 6.8 Hz, 3H)	486	IE (Hex:EtOH: DEA=60:40: 0.3)
A7-28	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.62 – 0.81 (m, 4H), 1.28 (dd, <i>J</i> = 12.4, 8.5 Hz, 1H), 1.40 (m, 1H), 1.64 (d, <i>J</i> = 10.1 Hz, 1H), 1.84 (t, <i>J</i> = 10.0 Hz, 1H), 1.93 (t, <i>J</i> = 10.2 Hz, 1H), 2.69 (d, <i>J</i> = 11.6 Hz, 1H), 2.79 – 2.89 (m, 3H), 2.90 – 2.99 (m, 1H), 3.53 (dt, <i>J</i> = 13.4, 4.7 Hz, 1H), 4.87 (s, 2H), 4.99 (d, <i>J</i> = 5.3 Hz, 1H), 6.97 (s, 1H), 7.08 (s, 1H), 7.14 (s, 1H), 7.79 – 7.87 (m, 2H), 7.90 (d, <i>J</i> = 9.7 Hz, 1H), 8.65 (s, 1H).	498	
A7-28-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.65 (d, <i>J</i> = 1.7 Hz, 1H), 7.94 (d, <i>J</i> = 1.3 Hz, 1H), 7.77 (d, <i>J</i> = 8.1 Hz, 1H), 7.63 (d, <i>J</i> = 8.0 Hz, 1H), 6.92 (s, 1H), 5.51 (s, 1H), 5.35 (s, 1H), 5.08 (s, 1H), 4.90 (d, <i>J</i> = 7.8 Hz, 2H), 4.14 (ddd, <i>J</i> = 14.7, 7.8, 3.2 Hz, 1H), 3.34 (dt, <i>J</i> = 10.0, 4.9 Hz, 1H), 3.14 (ddd, <i>J</i> = 14.6, 5.8, 2.8 Hz, 1H), 3.10 – 3.01 (m, 3H), 2.96 – 2.84 (m, 2H), 2.25 – 2.11 (m, 2H), 1.69 – 1.63 (m, 1H), 1.49 – 1.38 (m, 2H), 0.88 – 0.80 (m, 2H), 0.77 – 0.70 (m, 2H).	498	Reprosil AMS (Methanol:C O ₂ :NH ₃ = 35:65:0.2)
A7-28-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.65 (d, <i>J</i> = 1.6 Hz, 1H), 7.94 (d, <i>J</i> = 1.3 Hz, 1H), 7.78 (dd, <i>J</i> = 8.0, 1.6 Hz, 1H), 7.63 (d, <i>J</i> = 8.0 Hz, 1H), 6.93 (s, 1H), 5.52 (d, <i>J</i> = 3.8 Hz, 1H), 5.38 (s, 1H), 5.09 (s, 1H), 4.90 (d, <i>J</i> = 7.8 Hz, 2H), 4.14 (ddd, <i>J</i> = 14.6, 7.7, 3.2 Hz, 1H), 3.34 (tt, <i>J</i> = 9.8, 4.0 Hz, 1H), 3.14 (ddd, <i>J</i> = 14.6, 5.7, 2.7 Hz, 1H), 3.10 – 3.01 (m, 3H), 2.96 – 2.84 (m, 2H), 2.25 – 2.09 (m, 2H), 1.68 – 1.63 (m, 1H), 1.49 – 1.39 (m, 2H), 0.89 – 0.81 (m, 2H), 0.78 – 0.71 (m, 2H).	498	Reprosil AMS (Methanol:C O ₂ :NH ₃ = 35:65:0.2)

A7-29	¹ H NMR (400 MHz, CDCl ₃): δ 8.56 (s, 1H), 7.94 (m, 1H), 7.72-7.70 (m, 1H), 7.60 (d, <i>J</i> = 8.4 Hz, 1H), 6.95 (brs, 1H), 5.65 (s, 1H), 5.44 (s, 1H), 5.08 (s, 1H), 4.87 (dd, <i>J</i> = 16.0, 31.2 Hz, 2H), 4.18-4.11 (m, 1H), 3.36-3.31 (m, 1H), 3.15-3.06 (m, 2H), 3.02 (s, 2H), 2.92-2.87 (m, 2H), 2.24-2.14 (m, 2H), 2.01 (t, <i>J</i> = 18.8 Hz, 3H), 1.63-1.55 (m, 2H), 1.46-1.41 (m, 1H), 0.86-0.81 (m, 2H), 0.75-0.74 (m, 2H).	494	
A7-29-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.56 (s, 1 H), 7.95-7.94 (m, 1 H), 7.72-7.70 (m, 1 H), 7.60 (d, <i>J</i> = 8.4 Hz, 1 H), 6.95 (br, 1 H), 5.65 (s, 1 H), 5.44 (s, 1 H), 5.08 (s, 1H), 4.87 (dd, <i>J</i> ₁ = 15.6 Hz, <i>J</i> ₂ = 30.4 Hz, 2 H), 4.18-4.11 (m, 1 H), 3.36-3.31 (m, 1 H), 3.16-3.06 (m, 2 H), 3.03 (s, 2 H), 2.92-2.86 (m, 2 H), 2.24-2.11 (m, 2 H), 2.01 (t, <i>J</i> = 18.4 Hz), 1.63-1.55 (m, 2 H), 1.46-1.41 (m, 1 H), 0.84-0.81 (m, 2 H), 0.75-0.74 (m, 2 H)	494	ID (Hex:EtOH: DEA=70:30: 0.3)
A7-29-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.56 (s, 1 H), 7.95-7.94 (m, 1 H), 7.72-7.70 (m, 1 H), 7.60 (d, <i>J</i> = 8.4 Hz, 1 H), 6.95 (br, 1 H), 5.65 (s, 1 H), 5.44 (s, 1 H), 5.08 (s, 1H), 4.87 (dd, <i>J</i> ₁ = 15.6 Hz, <i>J</i> ₂ = 30.4 Hz, 2 H), 4.18-4.11 (m, 1 H), 3.36-3.31 (m, 1 H), 3.16-3.06 (m, 2 H), 3.03 (s, 2 H), 2.92-2.86 (m, 2 H), 2.24-2.11 (m, 2 H), 2.01 (t, <i>J</i> = 18.4 Hz), 1.63-1.55 (m, 2 H), 1.46-1.41 (m, 1 H), 0.84-0.81 (m, 2 H), 0.75-0.74 (m, 2 H)	494	ID (Hex:EtOH: DEA=70:30: 0.3)
A7-30	¹ H NMR (400 MHz, CDCl ₃): δ 1.42 (m, 1H), 1.53 (ddd, <i>J</i> = 24.6, 12.2, 4.0 Hz, 2H), 2.13 (t, <i>J</i> = 10.4 Hz, 1H), 2.20 (td, <i>J</i> = 11.4, 3.0 Hz, 1H), 2.86 (d, <i>J</i> = 11.2 Hz, 1H), 3.02 (s, 2H), 3.03 – 3.08 (m, 1H), 3.11 (ddd, <i>J</i> = 14.7, 5.7, 2.7 Hz, 1H), 3.33 (m, 1H), 3.67 – 3.97 (m, 2H), 4.13 (ddd, <i>J</i> = 14.6, 7.8, 3.2 Hz, 1H), 4.61 (t, <i>J</i> = 4.8 Hz, 1H), 4.73 (t, <i>J</i> = 4.8 Hz, 1H), 4.85 – 5.10 (m, 3H), 5.43 (brs, 1H), 5.55 (brs, 1H), 6.92 (brs, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.59 (d, <i>J</i> = 8.0 Hz, 2H), 7.94 (d, <i>J</i> = 1.6 Hz, 1H).	503	
A7-31	¹ H NMR (400 MHz, CDCl ₃): δ 1.34 – 1.67 (m, 3H), 2.12 (t, <i>J</i> = 10.4 Hz, 1H), 2.18 (td, <i>J</i> = 11.5, 2.9 Hz, 1H), 2.33 – 2.63 (m, 4H), 2.85 (m, 1H), 3.01 (s, 2H), 3.02 – 3.07 (m, 1H), 3.11 (ddd, <i>J</i> = 14.6, 5.5, 2.8 Hz, 1H), 3.32 (tt, <i>J</i> = 9.8, 3.8 Hz, 1H), 4.10 (ddd, <i>J</i> = 14.3, 7.6, 3.3 Hz, 1H), 4.78 (s, 2H), 4.95 – 5.22 (m, 3H), 5.48 (d, <i>J</i> = 3.6 Hz, 1H), 5.65 (brd, <i>J</i> = 4.0 Hz, 1H), 6.90 (brd, <i>J</i> = 4.0 Hz, 1H), 7.31 (d, <i>J</i> = 8.0 Hz, 2H), 7.57 (d, <i>J</i> = 8.0 Hz, 2H), 7.94 (d, <i>J</i> = 1.4 Hz, 1H).	529	

A7-32	¹ H NMR (400 MHz, CDCl ₃): δ 1.35 – 1.65 (m, 4H), 2.08 – 2.37 (m, 4H), 2.73 (dq, <i>J</i> = 12.8, 6.6 Hz, 2H), 2.85 (d, <i>J</i> = 11.3 Hz, 1H), 3.02 (s, 2H), 3.03 – 3.07 (m, 1H), 3.10 (ddd, <i>J</i> = 14.6, 5.6, 2.7 Hz, 1H), 3.32 (td, <i>J</i> = 9.9, 4.4 Hz, 1H), 4.11 (dtd, <i>J</i> = 13.3, 7.6, 6.3, 3.1 Hz, 1H), 4.37 (ddd, <i>J</i> = 16.7, 9.4, 7.3 Hz, 1H), 4.71 (p, <i>J</i> = 6.6 Hz, 1H), 4.85 (s, 2H), 5.01 (brs, 1H), 5.37 – 5.63 (m, 2H), 6.90 (brs, 1H), 7.31 (d, <i>J</i> = 8.0 Hz, 2H), 7.58 (d, <i>J</i> = 8.0 Hz, 2H), 7.95 (d, <i>J</i> = 1.4 Hz, 1H).	529	
A7-33	ND	496	
A7-34	ND	495	
A7-35	ND	482	
A7-36	ND	438	
A7-37	ND	484	
A7-38	ND	480	
A7-39	ND	481	
A7-40	¹ H NMR (400 MHz, CDCl ₃): δ 0.69 – 0.75 (m, 2H), 0.76 – 0.84 (m, 2H), 1.40 – 1.45 (m, 2H), 1.58 – 1.63 (m, 1H), 1.91 (t, <i>J</i> = 18.1 Hz, 3H), 2.08 – 2.26 (m, 2H), 2.89 (dt, <i>J</i> = 10.0, 5.1 Hz, 2H), 3.00 – 3.17 (m, 4H), 3.34 (dt, <i>J</i> = 10.3, 5.0 Hz, 1H), 4.15 (ddd, <i>J</i> = 14.4, 7.6, 3.1 Hz, 1H), 4.84 (s, 2H), 5.02 (s, 1H), 5.33 (s, 1H), 5.68 (s, 1H), 6.93 (s, 1H), 7.30 (d, <i>J</i> = 8.1 Hz, 2H), 7.44 (d, <i>J</i> = 8.3 Hz, 2H), 7.96 (d, <i>J</i> = 1.3 Hz, 1H).	493	

A7-41	¹ H NMR (400 MHz, CDCl ₃): δ 0.69 (s, 2H), 0.92 (s, 2H), 1.39 (s, 3H), 1.41 – 1.48 (m, 1H), 1.50 – 1.64 (m, 2H), 2.14 (t, <i>J</i> = 10.4 Hz, 1H), 2.21 (td, <i>J</i> = 11.3, 3.4 Hz, 1H), 2.88 (d, <i>J</i> = 11.3 Hz, 1H), 3.03 (s, 2H), 3.03-3.07 (m, 1H), 3.13 (ddd, <i>J</i> = 14.6, 5.7, 2.6 Hz, 1H), 3.36 (td, <i>J</i> = 9.8, 4.2 Hz, 1H), 4.13 (ddd, <i>J</i> = 14.6, 7.6, 3.2 Hz, 1H), 4.88 (s, 2H), 5.07 (brt, <i>J</i> = 8.2 Hz, 1H), 5.52 (m, 1H), 5.70 (brs, 1H), 6.92 (brs, 1H), 7.30 (d, <i>J</i> = 8.0 Hz, 2H), 7.53 (d, <i>J</i> = 8.0 Hz, 2H), 7.88 (d, <i>J</i> = 1.5 Hz, 1H).	511	
A7-42	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.78 – 0.86 (m, 2H), 1.38 – 1.46 (m, 2H), 2.14 – 2.21 (m, 2H), 2.82 – 2.92 (m, 2H), 3.04 – 3.21 (m, 4H), 3.31 – 3.37 (m, 1H), 4.11 – 4.18 (s, 1H), 4.84 (s, 2H), 5.01 (s, 1H), 5.34 (s, 1H), 5.65 (s, 1H), 6.49 (t, <i>J</i> = 73.4 Hz, 1H), 6.86 (d, <i>J</i> = 9.0 Hz, 2H), 7.23 (d, <i>J</i> = 8.4 Hz, 1H), 7.95 (s, 1H).	513	
A7-43	¹ H NMR (400 MHz, CDCl ₃): δ 0.69 – 0.75 (m, 2H), 0.76 – 0.81 (m, 2H), 1.42 – 2.45 (m, 2H), 1.59 – 1.63 (m, 1H), 2.07 – 2.27 (m, 2H), 2.87 (dt, <i>J</i> = 6.7, 3.3 Hz, 2H), 2.99 – 3.19 (m, 4H), 3.32 – 3.36 (m, 1H), 4.10 – 4.19 (m, 1H), 5.02 (s, 2H), 5.34 (s, 1H), 5.67 (s, 1H), 6.49 (t, <i>J</i> = 74.0 Hz, 1H), 6.92 (s, 1H), 7.06 (d, <i>J</i> = 8.6 Hz, 2H), 7.25 (d, <i>J</i> = 8.2 Hz, 2H), 7.96 (d, <i>J</i> = 1.3 Hz, 1H).	495	
A7-44	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.62 – 0.79 (m, 4H), 1.44 – 1.61 (m, 2H), 2.02 (d, <i>J</i> = 13.9 Hz, 2H), 2.07 – 2.20 (m, 2H), 2.59 (d, <i>J</i> = 7.8 Hz, 2H), 2.77 (s, 2H), 2.90 (dq, <i>J</i> = 6.4, 3.2 Hz, 1H), 3.46 (d, <i>J</i> = 5.9 Hz, 2H), 4.84 (s, 2H), 6.40 (s, 1H), 7.06 (s, 2H), 7.15 (s, 1H), 7.29 (s, 1H), 7.43 (d, <i>J</i> = 8.0 Hz, 2H), 7.68 (d, <i>J</i> = 8.1 Hz, 2H), 7.84 (d, <i>J</i> = 1.6 Hz, 1H).	524	
A7-45	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.81 – 0.88 (m, 2H), 1.47 – 1.69 (m, 4H), 2.48 – 2.61 (m, 4H), 2.92 (ddt, <i>J</i> = 10.5, 6.9, 3.7 Hz, 1H), 3.03 (s, 2H), 3.33 (d, <i>J</i> = 7.1 Hz, 2H), 3.41 (d, <i>J</i> = 6.9 Hz, 2H), 4.89 (s, 2H), 4.97 – 5.03 (m, 1H), 5.15 (t, <i>J</i> = 7.5 Hz, 1H), 5.37 (s, 1H), 7.04 (s, 1H), 7.63 (d, <i>J</i> = 8.0 Hz, 1H), 7.77 (dd, <i>J</i> = 8.0, 1.6 Hz, 1H), 7.92 (d, <i>J</i> = 1.3 Hz, 1H), 8.65 (d, <i>J</i> = 1.7 Hz, 1H).	512	
A7-46	¹ H NMR (600 MHz, CDCl ₃): δ 0.60 – 0.80 (m, 4H), 1.31 (m, 2H), 1.62 (m, 1H), 1.79 (brd, <i>J</i> = 13.4 Hz, 2H), 2.16 (td, <i>J</i> = 11.8, 2.3 Hz, 2H), 2.20 (s, 3H), 2.28 (s, 3H), 2.80 (m, 1H), 2.90 (brd, <i>J</i> = 11.6 Hz, 2H), 2.98 (s, 2H), 3.38 (t, <i>J</i> = 6.5 Hz, 2H), 4.68 (s, 2H), 4.80 (m, 1H), 5.68 (s, 1H), 6.98 (s, 1H), 7.06 (s, 1H), 7.11 (s, 1H), 7.98 (d, <i>J</i> = 1.4 Hz, 1H).	475	

A7-47	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.67 (m, 4H), 1.17 – 1.31 (m, 2H), 1.50 – 1.66 (m, 4H), 1.98 (d, <i>J</i> = 9.5 Hz, 3H), 2.17 (s, 3H), 2.20 (s, 3H), 2.78 (d, <i>J</i> = 11.3 Hz, 3H), 3.21 (t, <i>J</i> = 6.2 Hz, 2H), 4.66 (s, 2H), 6.87 – 6.97 (m, 2H), 7.02 (t, <i>J</i> = 6.4 Hz, 2H), 7.09 (d, <i>J</i> = 12.1 Hz, 2H), 7.81 (d, <i>J</i> = 1.7 Hz, 1H).	441	
A7-48	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.60 – 0.80 (m, 4H), 0.92 (d, <i>J</i> = 6.6 Hz, 3H), 1.25 (d, <i>J</i> = 13.1 Hz, 2H), 1.46 (d, <i>J</i> = 4.4 Hz, 2H), 1.59 (d, <i>J</i> = 9.5 Hz, 1H), 1.86 (m, 1H), 2.39 – 2.48 (m, 2H), 2.82 (d, <i>J</i> = 16.1 Hz, 1H), 2.85 – 2.97 (m, 2H), 3.23 (t, <i>J</i> = 6.4 Hz, 2H), 4.83 (s, 2H), 7.06 (t, <i>J</i> = 5.7 Hz, 1H), 7.10 (d, <i>J</i> = 2.6 Hz, 1H), 7.15 (d, <i>J</i> = 2.9 Hz, 1H), 7.43 (d, <i>J</i> = 8.0 Hz, 2H), 7.67 (d, <i>J</i> = 8.1 Hz, 2H), 7.82 (d, <i>J</i> = 1.6 Hz, 1H).	495	
A7-49	¹ H NMR (400 MHz, CDCl ₃): δ 0.71 – 0.78 (m, 2H), 0.77 – 0.81 (m, 2H), 1.34 – 1.46 (m, 2H), 1.52 – 1.57 (m, 1H), 1.78 (tt, <i>J</i> = 12.6, 6.4 Hz, 1H), 2.28 (t, <i>J</i> = 10.2 Hz, 2H), 2.82 – 3.20 (m, 6H), 3.67 – 3.82 (m, 2H), 4.88 (s, 2H), 5.02 (s, 1H), 5.40 (s, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.49 (s, 1H), 7.55 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.3 Hz, 1H).	497	
A7-50	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 – 0.75 (m, 2H), 0.75 – 0.84 (m, 2H), 1.75 (td, <i>J</i> = 13.5, 3.9 Hz, 2H), 2.00 (d, <i>J</i> = 11.5 Hz, 2H), 2.52 (td, <i>J</i> = 12.2, 2.2 Hz, 2H), 2.89 – 2.94 (M, 3H), 3.08 (s, 2H), 3.79 (d, <i>J</i> = 6.8 Hz, 2H), 4.87 (s, 2H), 5.11 (d, <i>J</i> = 3.3 Hz, 1H), 5.41 (s, 1H), 6.88 (s, 1H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.96 (d, <i>J</i> = 1.4 Hz, 1H).	506	
A7-51	¹ H NMR (400 MHz, CDCl ₃) δ 0.72 – 0.76 (m, 2H), 0.78 – 0.82 (m, 2H), 1.61 – 1.66 (m, 4H), 2.53 – 2.57 (m, 4H), 2.85 – 2.95 (m, 1H), 3.03 (s, 2H), 3.34 (s, 2H), 3.41 (d, <i>J</i> = 7.0 Hz, 2H), 4.87 (s, 2H), 4.95 (s, 1H), 5.30 (s, 1H), 5.36 (s, 1H), 7.04 (s, 1H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.2 Hz, 1H).	511	
A7-52	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.73 (d, <i>J</i> = 5.4 Hz, 4H), 1.42 (t, <i>J</i> = 5.4 Hz, 4H), 2.39 (ddt, <i>J</i> = 18.6, 12.7, 6.3 Hz, 4H), 2.82 (s, 2H), 3.06 (m, 1H), 3.25 (d, <i>J</i> = 5.2 Hz, 2H), 4.93 (bs, 3H), 6.88 (t, <i>J</i> = 4.7 Hz, 1H), 7.09 (d, <i>J</i> = 20.3 Hz, 2H), 7.45 (d, <i>J</i> = 8.3 Hz, 1H), 7.78 (d, <i>J</i> = 1.5 Hz, 1H), 8.13 (dd, <i>J</i> = 8.3, 2.1 Hz, 1H), 8.89 (s, 1H).	512	

A7-53	¹ H NMR (600 MHz, CDCl ₃): δ 0.68 (m, 2H), 0.75 (m, 2H), 1.32 (m, 2H), 1.62 (m, 1H), 1.79 (brd, <i>J</i> = 10.2 Hz, 2H), 2.16 (td, <i>J</i> = 11.7, 2.3 Hz, 2H), 2.33 (s, 6H), 2.85 (m, 1H), 2.90 (brd, <i>J</i> = 11.6 Hz, 2H), 2.98 (s, 2H), 3.38 (t, <i>J</i> = 6.5 Hz, 2H), 4.69 (s, 2H), 4.80 (m, 1H), 5.61 (s, 1H), 6.94 (s, 2H), 7.06 (s, 1H), 8.00 (d, <i>J</i> = 1.5 Hz, 1H).	475	
A7-54	¹ H NMR (400 MHz, CDCl ₃): δ 0.73 (d, <i>J</i> = 3.7 Hz, 2H), 0.80 (q, <i>J</i> = 5.6 Hz, 2H), 1.43 (dd, <i>J</i> = 22.5, 6.8 Hz, 3H), 2.17 (t, <i>J</i> = 10.4 Hz, 1H), 2.20 – 2.29 (m, 1H), 2.85 – 2.96 (m, 2H), 3.05 (s, 2H), 3.07 – 3.19 (m, 2H), 3.34 (td, <i>J</i> = 10.1, 4.4 Hz, 1H), 4.15 (ddd, <i>J</i> = 14.5, 7.5, 3.2 Hz, 2H), 4.78 – 4.93 (m, 2H), 5.04 (s, 1H), 5.44 (s, 1H), 6.99 (d, <i>J</i> = 8.4 Hz, 1H), 7.32 (d, <i>J</i> = 8.6 Hz, 2H), 7.65 (d, <i>J</i> = 8.2 Hz, 2H), 7.94 (d, <i>J</i> = 1.3 Hz, 1H).	595	
A7-54-1	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 8.64 (bs, 1H), 7.83 (d, <i>J</i> = 1.6 Hz, 1H), 7.62 (d, <i>J</i> = 8.2 Hz, 2H), 7.34 (d, <i>J</i> = 8.2 Hz, 2H), 7.15 (s, 1H), 7.08 (s, 1H), 6.93 (s, 1H), 5.76 (s, 1H), 5.00 (d, <i>J</i> = 4.8 Hz, 2H), 4.80 (s, 2H), 3.52 (dt, <i>J</i> = 13.3, 4.7 Hz, 2H), 2.95 – 2.78 (m, 4H), 2.74 – 2.64 (m, 1H), 2.00 – 1.88 (m, 1H), 1.84 (t, <i>J</i> = 10.1 Hz, 1H), 1.65 (d, <i>J</i> = 9.9 Hz, 1H), 1.40 (s, 1H), 1.35 – 1.19 (m, 1H), 0.78 – 0.61 (m, 4H).	595	Reprosil AMS (MeOH:CO ₂ :NH ₃ =30:70:0.2)
A7-54-2	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 8.63 (s, 1H), 7.83 (d, <i>J</i> = 1.6 Hz, 1H), 7.62 (d, <i>J</i> = 8.2 Hz, 2H), 7.35 (d, <i>J</i> = 8.5 Hz, 2H), 7.15 (s, 1H), 7.08 (s, 1H), 6.93 (s, 1H), 5.00 (d, <i>J</i> = 5.2 Hz, 1H), 4.80 (s, 2H), 3.52 (dt, <i>J</i> = 13.1, 4.6 Hz, 1H), 2.95 – 2.79 (m, 4H), 2.75 – 2.64 (m, 2H), 2.00 – 1.88 (m, 1H), 1.84 (t, <i>J</i> = 10.1 Hz, 1H), 1.65 (d, <i>J</i> = 10.4 Hz, 1H), 1.40 (s, 1H), 1.34 – 1.19 (m, 2H), 0.78 – 0.62 (m, 4H).	595	Reprosil AMS (MeOH:CO ₂ :NH ₃ =30:70:0.2)
A7-55''	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.77 – 0.83 (m, 2H), 1.18 – 1.24 (m, 6H), 1.40 – 1.48 (m, 2H), 1.62 – 1.69 (m, 1H), 2.08 (t, <i>J</i> = 10.2 Hz, 1H), 2.14 – 2.24 (m, 1H), 2.80 (d, <i>J</i> = 11.1 Hz, 1H), 2.90 (dd, <i>J</i> = 6.9, 3.8 Hz, 1H), 3.03 – 3.18 (m, 2H), 3.27 – 3.33 (m, 1H), 4.12 (dd, <i>J</i> = 14.4, 7.7 Hz, 1H), 4.87 (s, 2H), 5.05 (s, 1H), 5.12 (s, 1H), 5.53 (d, <i>J</i> = 3.6 Hz, 1H), 7.00 (s, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.0 Hz, 2H), 7.96 (d, <i>J</i> = 1.3 Hz, 1H).	525	

A7-56	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 0.61 – 0.78 (m, 4H), 1.26 (qd, <i>J</i> = 12.2, 4.0 Hz, 1H), 1.40 (s, 1H), 1.64 (d, <i>J</i> = 9.8 Hz, 1H), 1.84 (t, <i>J</i> = 10.1 Hz, 1H), 1.93 (t, <i>J</i> = 10.3 Hz, 1H), 2.64 – 2.74 (m, 1H), 2.84 (dd, <i>J</i> = 19.2, 3.5 Hz, 3H), 3.17 (d, <i>J</i> = 4.2 Hz, 1H), 3.40 (m, 2H), 3.53 (dt, <i>J</i> = 13.2, 4.6 Hz, 1H), 4.79 (s, 2H), 4.99 (s, 1H), 6.94 (t, <i>J</i> = 5.7 Hz, 1H), 7.08 (s, 1H), 7.16 (d, <i>J</i> = 9.7 Hz, 2H), 7.19 – 7.30 (m, 2H), 7.45 (t, <i>J</i> = 7.9 Hz, 1H), 7.84 (d, <i>J</i> = 1.6 Hz, 1H).	513	
A7-57''	¹ H NMR (400 MHz, CDCl ₃): δ 1.18 – 1.27 (m, 9H), 1.40 – 1.46 (m, 2H), 1.62 – 1.67 (m, 1H), 2.07 (t, <i>J</i> = 10.2 Hz, 1H), 2.14 – 2.23 (m, 1H), 2.79 (d, <i>J</i> = 10.8 Hz, 1H), 3.01 – 3.17 (m, 2H), 3.26 – 3.34 (m, 1H), 3.46 – 3.64 (m, 2H), 4.12 (ddd, <i>J</i> = 14.5, 7.6, 2.5 Hz, 1H), 4.84 (d, <i>J</i> = 6.4 Hz, 2H), 4.96 (s, 1H), 5.16 (d, <i>J</i> = 4.5 Hz, 1H), 5.65 (s, 1H), 6.99 (d, <i>J</i> = 5.7 Hz, 1H), 7.37 (d, <i>J</i> = 8.0 Hz, 2H), 7.58 (d, <i>J</i> = 8.1 Hz, 2H), 7.94 (d, <i>J</i> = 1.6 Hz, 1H).	513	
A7-58	¹ H NMR (400 MHz, CDCl ₃): δ 7.96 (d, <i>J</i> = 1.2 Hz, 1H), 7.49 (d, <i>J</i> = 7.9 Hz, 1H), 6.96 (s, 1H), 6.91 – 6.85 (m, 2H), 5.38 (s, 1H), 5.05 (s, 1H), 4.91 – 4.75 (m, 2H), 4.19 – 4.08 (m, 1H), 3.86 (s, 3H), 3.42 – 3.32 (m, 1H), 3.18 – 3.02 (m, 2H), 2.97 – 2.87 (m, 2H), 2.33 – 2.08 (m, 3H), 1.51 – 1.40 (m, 3H), 0.84 – 0.77 (m,), 0.76 – 0.69 (m, 2H).	527	
A7-59	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (d, <i>J</i> = 3.4 Hz, 1H), 7.56 (d, <i>J</i> = 8.0 Hz, 2H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 6.74 (brd, <i>J</i> = 8.5 Hz, 0.5H), 6.17 (m, 1.5H), 5.52 (dd, <i>J</i> = 34.4, 11.0 Hz, 0.5H), 5.05 (brs, 1H), 4.93 – 4.63 (m, 2H), 4.30 (d, <i>J</i> = 8.2 Hz, 0.5H), 4.11 (m, 1H), 3.65 – 3.27 (m, 3H), 3.24 – 2.70 (m, 2.5H), 2.65 – 2.23 (m, 1.5H), 1.90 – 1.39 (m, 4H), 1.20 (t, <i>J</i> = 6.9 Hz, 3H).	510	
A7-60	¹ H NMR (400 MHz, CDCl ₃): δ 1.41 (m, 1H), 1.47 – 1.66 (m, 2H), 2.13 (t, <i>J</i> = 10.4 Hz, 1H), 2.19 (td, <i>J</i> = 11.4, 3.1 Hz, 1H), 2.86 (m, 1H), 3.02 (s, 2H), 3.02 – 3.07 (m, 1H), 3.11 (ddd, <i>J</i> = 14.6, 5.7, 2.6 Hz, 1H), 3.32 (brt, <i>J</i> = 8.6 Hz, 1H), 4.13 (ddd, <i>J</i> = 14.6, 7.7, 3.2 Hz, 1H), 4.72 – 4.93 (m, 2H), 5.01 (brt, <i>J</i> = 8.1 Hz, 1H), 5.61 (m, 1H), 5.68 (m, 1H), 6.92 (m, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.58 (d, <i>J</i> = 8.0 Hz, 2H), 7.94 (d, <i>J</i> = 1.6 Hz, 1H).	474	

A7-61	¹ H NMR (400 MHz, CDCl ₃): δ 7.93 (d, <i>J</i> = 1.3 Hz, 1H), 7.21 – 7.12 (m, 2H), 7.05 (s, 1H), 6.93 (s, 1H), 5.68 (s, 1H), 5.35 (s, 1H), 5.01 (s, 1H), 4.83 (d, <i>J</i> = 10.4 Hz, 2H), 4.14 (ddd, <i>J</i> = 14.6, 7.7, 3.3 Hz, 1H), 3.87 (s, 3H), 3.40 – 3.30 (m, 1H), 3.17 – 3.09 (m, 1H), 3.05 (d, <i>J</i> = 14.3 Hz, 3H), 2.95 (dq, <i>J</i> = 6.3, 3.0 Hz, 1H), 2.88 (d, <i>J</i> = 9.1 Hz, 1H), 2.26 – 2.09 (m, 2H), 1.66 – 1.61 (m, 1H), 1.48 – 1.38 (m, 2H), 0.81 – 0.74 (m, 2H), 0.74 – 0.69 (m, 2H).	527	
A7-62	¹ H NMR (400 MHz, CDCl ₃): δ 8.58 (m, 2H), 7.93 (d, <i>J</i> = 1.6 Hz, 0.5H), 7.90 (d, <i>J</i> = 1.6 Hz, 0.5H), 7.58 (d, <i>J</i> = 8.1 Hz, 2H), 7.37 (d, <i>J</i> = 8.1 Hz, 2H), 7.21 (m, 2H), 6.93 (d, <i>J</i> = 4.1 Hz, 1H), 5.78 (d, <i>J</i> = 4.0 Hz, 2H), 4.98 (brs, 1H), 4.92 – 4.72 (m, 2H), 4.08 (ddt, <i>J</i> = 14.4, 7.1, 3.4 Hz, 1H), 3.98 (d, <i>J</i> = 5.6 Hz, 1H), 3.54 (m, 2H), 3.40 (m, 0.5H), 3.31 (m, 0.5H), 3.21 (m, 0.5H), 3.14-2.97 (m, 1.5H), 2.88 (m, 0.5H), 2.69(m, 0.5H), 2.20 (td, <i>J</i> = 11.1, 3.7 Hz, 0.5H), 2.12 (t, <i>J</i> = 10.3 Hz, 0.5H), 1.87 – 1.28 (m, 4H), 1.21 (t, <i>J</i> = 7.0 Hz, 3H).	562	
A7-63	¹ H NMR (400 MHz, CDCl ₃): δ 8.62 (m, 2H), 7.94 (dd, <i>J</i> = 11.6, 1.3 Hz, 1H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.36 (d, <i>J</i> = 8.1 Hz, 2H), 7.22 (m, 2H), 6.91 (d, <i>J</i> = 4.1 Hz, 1H), 5.82 – 5.50 (m, 2H), 5.06 (s, 1H), 4.87 (d, <i>J</i> = 4.0 Hz, 2H), 4.09 (ddd, <i>J</i> = 14.8, 7.5, 3.7 Hz, 1H), 3.99 (d, <i>J</i> = 6.7 Hz, 1H), 3.41 (m, 0.5H), 3.32 (m, 0.5H), 3.22 (m, 0.5H), 3.16 – 2.99 (m, 2H), 2.91 (m, 1.5H), 2.70 (m, 0.5H), 2.21 (td, <i>J</i> = 11.1, 3.8 Hz, 0.5H), 2.13 (t, <i>J</i> = 10.3 Hz, 0.5H), 1.84 – 1.44 (m, 3.5H), 0.88 – 0.65 (m, 4H).	574	
A7-64	¹ H NMR (400 MHz, CDCl ₃): δ 0.71 – 0.78 (m, 2H), 0.77 – 0.81 (m, 2H), 1.34 – 1.46 (m, 2H), 1.52 – 1.57 (m, 1H), 1.78 (tt, <i>J</i> = 12.6, 6.4 Hz, 1H), 2.28 (t, <i>J</i> = 10.2 Hz, 2H), 2.82 – 3.20 (m, 6H), 3.67 – 3.82 (m, 2H), 4.88 (s, 2H), 5.02 (s, 1H), 5.40 (s, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.49 (s, 1H), 7.55 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.3 Hz, 1H).	511	
A7-65	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 – 0.76 (m, 2H), 0.77 – 0.84 (m, 2H), 1.37 – 1.57 (m, 3H), 2.18 – 2.38 (m, 1H), 2.51 – 2.74 (m, 1H), 2.82 – 2.88 (m, 2H), 2.99 – 3.29 (m, 5H), 3.36 (d, <i>J</i> = 4.3 Hz, 1H), 3.78 – 3.94 (m, 1H), 3.99 (ddd, <i>J</i> = 11.5, 7.4, 4.1 Hz, 1H), 4.13 (dd, <i>J</i> = 14.7, 7.6 Hz, 1H), 4.87 (s, 2H), 5.03 (s, 1H), 5.43 (s, 1H), 5.66 (s, 1H), 7.06 (d, <i>J</i> = 16.6 Hz, 1H), 7.36 (d, <i>J</i> = 7.9 Hz, 2H), 7.56 (d, <i>J</i> = 8.2 Hz, 2H), 7.95 (dd, <i>J</i> = 2.6, 1.4 Hz, 1H).	527	

A7-66-1	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 1.36 – 1.46 (m, 2H), 1.59 – 1.69 (m, 1H), 2.22 (t, <i>J</i> = 10.3 Hz, 1H), 2.65 (td, <i>J</i> = 11.4, 2.9 Hz, 1H), 2.87 (d, <i>J</i> = 11.3 Hz, 1H), 3.00 – 3.15 (m, 3H), 3.22 (dd, <i>J</i> = 7.9, 4.0 Hz, 3H), 3.54 (td, <i>J</i> = 14.5, 7.3 Hz, 2H), 3.80 – 3.87 (m, 2H), 3.95 – 4.03 (m, 1H), 4.13 (ddd, <i>J</i> = 14.7, 7.7, 3.2 Hz, 1H), 4.84 (d, <i>J</i> = 8.6 Hz, 2H), 4.93 (s, 1H), 5.42 (s, 1H), 5.77 (s, 1H), 7.04 (s, 1H), 7.37 (d, <i>J</i> = 8.0 Hz, 2H), 7.58 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.7 Hz, 1H).	515	Lux C2 (MeOH:CO ₂ :NH ₃ =35:65: 0.2)
A7-66-2	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 1.37 – 1.46 (m, 2H), 1.60 – 1.66 (m, 1H), 2.29 – 2.40 (m, 1H), 2.56 (t, <i>J</i> = 10.2 Hz, 1H), 2.85 (d, <i>J</i> = 10.1 Hz, 1H), 3.01 – 3.25 (m, 5H), 3.34 (d, <i>J</i> = 4.6 Hz, 1H), 3.46 – 3.63 (m, 2H), 3.89 (s, 1H), 3.94 – 4.04 (m, 1H), 4.14 (dd, <i>J</i> = 12.5, 7.7 Hz, 1H), 4.83 (d, <i>J</i> = 8.3 Hz, 2H), 4.92 (s, 1H), 5.41 (s, 1H), 5.75 (s, 1H), 7.08 (s, 1H), 7.37 (d, <i>J</i> = 8.0 Hz, 2H), 7.58 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.6 Hz, 1H).	515	Lux C2 (MeOH:CO ₂ :NH ₃ =35:65: 0.2)
A7-67''	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 1.35 – 1.65 (m, 2H), 1.82 – 2.05 (m, 2H), 2.11 – 2.55 (m, 2H), 2.67 – 3.06 (m, 3H), 3.10 (dd, <i>J</i> = 14.5, 5.8 Hz, 1H), 3.25 – 3.47 (m, 2H), 3.48 – 3.74 (m, 3H), 3.84 (dt, <i>J</i> = 10.1, 5.0 Hz, 1H), 4.14 (dd, <i>J</i> = 14.7, 7.5 Hz, 1H), 4.75 – 4.98 (m, 3H), 5.46 (s, 1H), 5.85 (s, 1H), 7.37 (d, <i>J</i> = 8.1 Hz, 2H), 7.58 (d, <i>J</i> = 8.2 Hz, 2H), 7.93 (t, <i>J</i> = 1.5 Hz, 1H).	529	
A7-68	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 – 0.74 (m, 2H), 0.75 – 0.83 (m, 2H), 1.50 – 1.69 (m, 2H), 1.70 – 1.76 (m, 2H), 2.63 – 2.77 (m, 3H), 2.90 (dq, <i>J</i> = 6.7, 3.0 Hz, 1H), 2.98 (t, <i>J</i> = 9.7 Hz, 1H), 3.24 (dd, <i>J</i> = 7.6, 3.9 Hz, 2H), 3.49 (dd, <i>J</i> = 6.0, 2.4 Hz, 2H), 3.89 (d, <i>J</i> = 8.0 Hz, 1H), 4.02 (dd, <i>J</i> = 11.2, 7.7 Hz, 1H), 4.80 (s, 1H), 4.86 (s, 2H), 5.13 (d, <i>J</i> = 2.9 Hz, 1H), 5.46 (s, 1H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.92 (d, <i>J</i> = 1.4 Hz, 1H).	527	
A7-69''	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.78 – 0.86 (m, 2H), 1.41 – 1.65 (m, 3H), 2.07 – 2.29 (m, 2H), 2.91 (dq, <i>J</i> = 6.5, 3.0 Hz, 2H), 2.98 – 3.22 (m, 2H), 3.35 (s, 1H), 4.15 (ddd, <i>J</i> = 14.6, 7.5, 3.1 Hz, 1H), 4.87 (s, 2H), 5.04 (s, 1H), 5.33 (s, 1H), 5.62 (s, 1H), 6.92 (s, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.95 (d, <i>J</i> = 1.2 Hz, 1H).	499	

A7-70	¹ H NMR (400 MHz, CDCl ₃): δ 0.69 – 0.75 (m, 2H), 0.77 – 0.82 (m, 2H), 1.49 (m, 4H), 2.57 – 2.68 (m, 2H), 2.77 (m, 2H), 2.90 (m, 1H), 3.23 (m, 1H), 3.32 (s, 2H), 3.41 (dd, <i>J</i> = 6.9, 3.7 Hz, 2H), 3.90 (dd, <i>J</i> = 11.3, 4.1 Hz, 1H), 4.01 (dd, <i>J</i> = 11.3, 7.1 Hz, 1H), 4.87 (s, 2H), 4.96 (m, 1H), 5.30 (s, 1H), 5.49 (d, <i>J</i> = 4.5 Hz, 1H), 7.23 (s, 1H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.3 Hz, 1H).	541	
A7-71	¹ H NMR (400 MHz, CDCl ₃): δ 7.95 (m, 1H), 7.56 (d, <i>J</i> = 7.9 Hz, 2H), 7.36 (d, <i>J</i> = 7.9 Hz, 2H), 5.78 (m, 1H), 5.39 (m, 2H), 5.05 (m, 1H), 4.85 (m, 2H), 4.10 (m, 1H), 3.96 (m, 2H), 3.36 (m, 2H), 3.30 – 2.97 (m, 3H), 2.89 (m, 1.5H), 2.81 (m, 0.5H), 2.71 (d, <i>J</i> = 8.3 Hz, 0.5H), 2.64 (d, <i>J</i> = 8.3 Hz, 0.5H), 2.38 (m, 0.5H), 2.24 (m, 1.5H), 2.07 (m, 1H), 1.68 (m, 1H), 1.50 – 1.35 (m, 4H), 0.92 – 0.64 (m, 5H).	581	
A7-72	ND	497	
A7-73	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 1.24 – 1.45 (m, 3H), 2.07 – 2.27 (m, 2H), 2.86 (d, <i>J</i> = 10.8 Hz, 1H), 2.96 – 3.15 (m, 5H), 3.32 (td, <i>J</i> = 9.9, 4.2 Hz, 1H), 3.56 (q, <i>J</i> = 7.2, 6.5 Hz, 2H), 3.99 – 4.08 (m, 2H), 4.16 (ddd, <i>J</i> = 14.5, 7.8, 3.0 Hz, 1H), 4.23 – 4.34 (m, 2H), 4.78 (d, <i>J</i> = 10.1 Hz, 2H), 4.90 (s, 1H), 5.32 (s, 1H), 6.94 (s, 1H), 7.26 (d, <i>J</i> = 8.3 Hz, 2H), 7.43 (d, <i>J</i> = 8.3 Hz, 2H), 7.68 (s, 1H), 7.79 (d, <i>J</i> = 0.6 Hz, 1H), 7.95 (d, <i>J</i> = 1.6 Hz, 1H).	527	
A7-74	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.77 – 0.83 (m, 2H), 1.36 – 1.80 (m, 3H), 2.10 – 2.26 (m, 2H), 2.84 – 2.92 (m, 2H), 3.01 – 3.16 (m, 4H), 3.35 (td, <i>J</i> = 10.0, 4.6 Hz, 1H), 3.94 (s, 3H), 4.14 (ddd, <i>J</i> = 14.4, 7.5, 3.1 Hz, 1H), 4.79 – 4.84 (m, 2H), 5.01 (s, 1H), 5.37 (s, 1H), 5.75 (s, 1H), 6.94 (s, 1H), 7.26 (d, <i>J</i> = 8.3 Hz, 2H), 7.40 (d, <i>J</i> = 8.3 Hz, 2H), 7.58 (s, 1H), 7.73 (d, <i>J</i> = 0.7 Hz, 1H), 7.97 (d, <i>J</i> = 1.3 Hz, 1H).	509	
A7-75	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 – 0.76 (m, 2H), 0.77 – 0.83 (m, 2H), 1.52 – 1.65 (m, 3H), 2.10 – 2.27 (m, 2H), 2.82 – 2.94 (m, 2H), 3.00 – 3.17 (m, 4H), 3.34 (dt, <i>J</i> = 10.1, 5.0 Hz, 1H), 3.94 (s, 3H), 4.14 (ddd, <i>J</i> = 14.6, 7.6, 3.2 Hz, 1H), 4.86 (s, 2H), 5.01 (s, 1H), 5.34 (s, 1H), 5.73 (s, 1H), 6.94 (s, 1H), 7.09 – 7.25 (m, 3H), 7.58 (s, 1H), 7.72 (d, <i>J</i> = 0.7 Hz, 1H), 7.97 (d, <i>J</i> = 1.3 Hz, 1H).	527	

A7-76	¹ H NMR (400 MHz, CDCl ₃): δ 0.71 – 0.77 (m, 2H), 0.77 – 0.84 (m, 2H), 1.40 – 1.52 (m, 3H), 2.10– 2.24 (m, 2H), 2.91 (dd, <i>J</i> = 6.8, 3.5 Hz, 2H), 3.00 – 3.22 (m, 4H), 3.36 (br s, 1H), 4.09 – 4.21 (m, 1H), 4.88 (s, 2H), 5.02 (s, 1H), 5.37 (s, 1H), 5.69 (s, 1H), 6.47 (dd, <i>J</i> = 2.5, 1.8 Hz, 1H), 7.00 (s, 1H), 7.28 – 7.54 (m, 3H), 7.72 (d, <i>J</i> = 1.4 Hz, 1H), 7.89 (d, <i>J</i> = 2.1 Hz, 1H), 7.97 (d, <i>J</i> = 1.2 Hz, 1H).	513	
A7-77	¹ H NMR (400 MHz, CDCl ₃): δ 1.20 (t, <i>J</i> = 7.0 Hz, 3H), 1.41 (m, 1H), 1.56 (m, 2H), 2.13 (t, <i>J</i> = 10.4 Hz, 1H), 2.20 (m, 1H), 2.71 (q, <i>J</i> = 7.1 Hz, 1H), 2.85 (d, <i>J</i> = 11.2 Hz, 1H), 3.01 (d, <i>J</i> = 0.9 Hz, 2H), 3.02 – 3.15 (m, 2H), 3.34 (td, <i>J</i> = 10.0, 4.4 Hz, 1H), 3.46 – 3.63 (m, 2H), 4.13 (m, 1H), 4.73 – 4.88 (m, 2H), 4.98 (brt, <i>J</i> = 8.1 Hz, 1H), 5.53 (brd, <i>J</i> = 3.8 Hz, 1H), 6.43 – 6.49 (m, 1H), 6.94 (m, 1H), 7.35 (d, <i>J</i> = 8.6 Hz, 2H), 7.64 (d, <i>J</i> = 8.6 Hz, 3H), 7.71 (d, <i>J</i> = 1.5 Hz, 1H), 7.94 (d, <i>J</i> = 1.5 Hz, 1H).	483	
A7-78	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 1.42 (m, 1H), 1.48 – 1.66 (m, 2H), 2.13 (t, <i>J</i> = 10.4 Hz, 1H), 2.20 (td, <i>J</i> = 11.4, 3.1 Hz, 1H), 2.86 (d, <i>J</i> = 11.3 Hz, 1H), 3.00 – 3.03 (s, 2H), 3.03 – 3.08 (m, 1H), 3.11 (ddd, <i>J</i> = 14.6, 5.7, 2.6 Hz, 1H), 3.34 (td, <i>J</i> = 9.8, 4.2 Hz, 1H), 3.53 (dtd, <i>J</i> = 16.4, 7.3, 1.9 Hz, 2H), 4.12 (ddd, <i>J</i> = 14.6, 7.7, 3.2 Hz, 1H), 4.72 – 4.93 (m, 2H), 5.00 (brt, <i>J</i> = 8.2 Hz, 1H), 5.55 (brs, 1H), 5.66 (brs, 1H), 6.91 (brs, 1H), 7.36 (d, <i>J</i> = 8.4 Hz, 2H), 7.61 (d, <i>J</i> = 8.4 Hz, 2H), 7.91 (d, <i>J</i> = 1.6 Hz, 1H).	442	
A7-79	¹ H NMR (400 MHz, CDCl ₃): δ 1.21 (t, <i>J</i> = 7.0 Hz, 3H), 2.04 – 2.28 (m, 2H), 2.87 (d, <i>J</i> = 11.3 Hz, 2H), 2.98 – 3.17 (m, 4H), 3.34 (td, <i>J</i> = 9.9, 4.3 Hz, 2H), 3.48 – 3.62 (m, 3H), 3.97 (t, <i>J</i> = 13.3 Hz, 2H), 4.15 (ddd, <i>J</i> = 14.6, 7.6, 3.1 Hz, 2H), 4.74 – 4.88 (m, 2H), 4.93 (s, 1H), 5.36 (s, 2H), 6.94 (s, 1H), 7.34 (d, <i>J</i> = 8.3 Hz, 2H), 7.48 (d, <i>J</i> = 8.3 Hz, 2H), 7.93 (d, <i>J</i> = 1.6 Hz, 1H).	497	
A7-80	¹ H NMR (400 MHz, CDCl ₃): δ 0.67 (m, 2H), 0.75 (m, 2H), 1.86 (dt, <i>J</i> = 13.9, 7.2 Hz, 2H), 2.42 (m, 4H), 2.75 (m, 2H), 2.85 (tt, <i>J</i> = 6.6, 3.3 Hz, 1H), 2.99 (s, 2H), 3.76 (d, <i>J</i> = 5.8 Hz, 2H), 4.83 (s, 2H), 5.50 (m, 1H), 5.97 (d, <i>J</i> = 4.7 Hz, 1H), 7.18 (d, <i>J</i> = 4.6 Hz, 1H), 7.33 (d, <i>J</i> = 8.0 Hz, 2H), 7.53 (d, <i>J</i> = 8.0 Hz, 2H), 7.96 (d, <i>J</i> = 1.3 Hz, 1H), 8.13 (s, 1H).	548	

A7-81	¹ H NMR (400 MHz, CDCl ₃): δ 0.69 (m, 2H), 0.76 (m, 2H), 1.88 (ddd, <i>J</i> = 13.3, 9.9, 3.7 Hz, 2H), 2.39 (m, 4H), 2.71 – 2.92 (m, 3H), 2.99 (s, 2H), 3.83 (d, <i>J</i> = 6.3 Hz, 2H), 4.84 (s, 2H), 5.13 (m, 1H), 5.46 (brs, 1H), 7.05 (brs, 1H), 7.34 (d, <i>J</i> = 8.0 Hz, 2H), 7.54 (d, <i>J</i> = 8.0 Hz, 2H), 7.94 (d, <i>J</i> = 1.4 Hz, 1H), 8.72 (s, 1H).	549	
A7-82	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 (m, 2H), 0.76 (m, 2H), 1.90 (td, <i>J</i> = 10.6, 5.3 Hz, 3H), 2.39 (m, 4H), 2.86 (m, 3H), 3.01 (s, 2H), 3.87 (d, <i>J</i> = 6.6 Hz, 2H), 4.83 (s, 2H), 5.13 (brm, 1H), 5.54 (brs, 1H), 7.00 (brs, 1H), 7.33 (d, <i>J</i> = 8.0 Hz, 2H), 7.54 (d, <i>J</i> = 8.0 Hz, 2H), 7.87 (d, <i>J</i> = 1.4 Hz, 1H), 8.40 (s, 1H).	549	
A7-83	¹ H NMR (400 MHz, CDCl ₃): δ 0.62 – 0.70 (m, 2H), 0.72 – 0.79 (m, 2H), 1.84 – 1.96 (m, 2H), 2.48 – 2.61 (m, 4H), 2.76 – 2.87 (m, 3H), 3.01 (s, 2H), 3.86 (s, 3H), 3.90 (d, <i>J</i> = 6.2 Hz, 2H), 4.82 (s, 2H), 5.13 (s, 1H), 5.42 (s, 1H), 7.00 (s, 1H), 7.32 (d, <i>J</i> = 8.0 Hz, 2H), 7.55 (d, <i>J</i> = 8.1 Hz, 2H), 7.88 (d, <i>J</i> = 1.3 Hz, 1H), 7.99 (s, 1H).	562	
A7-84	¹ H NMR (400 MHz, CDCl ₃): δ 0.65 – 0.71 (m, 2H), 0.74 – 0.80 (m, 2H), 1.76 – 1.91 (m, 3H), 2.33 (dd, <i>J</i> = 13.3, 3.5 Hz, 2H), 2.42 – 2.55 (m, 2H), 2.74 (ddd, <i>J</i> = 10.8, 6.5, 3.5 Hz, 1H), 2.87 (tt, <i>J</i> = 6.8, 3.4 Hz, 1H), 3.00 (s, 2H), 3.76 (d, <i>J</i> = 6.1 Hz, 2H), 4.84 (s, 2H), 5.32 – 5.41 (m, 1H), 5.50 (d, <i>J</i> = 4.4 Hz, 1H), 7.01 – 7.05 (m, 2H), 7.34 (d, <i>J</i> = 8.0 Hz, 2H), 7.55 (d, <i>J</i> = 8.1 Hz, 2H), 7.96 (d, <i>J</i> = 1.3 Hz, 1H).	547	
A7-85	¹ H NMR (400 MHz, CDCl ₃): δ 0.64 – 0.71 (m, 2H), 0.72 – 0.80 (m, 2H), 1.94 (ddd, <i>J</i> = 13.6, 9.9, 3.7 Hz, 2H), 2.19 – 2.40 (m, 4H), 2.77 (dt, <i>J</i> = 10.1, 4.4 Hz, 2H), 2.86 (dq, <i>J</i> = 6.7, 3.0 Hz, 1H), 2.97 (s, 2H), 3.71 (d, <i>J</i> = 6.1 Hz, 2H), 4.84 (s, 2H), 4.97 (s, 1H), 5.39 (s, 1H), 7.05 (s, 1H), 7.34 (d, <i>J</i> = 8.0 Hz, 2H), 7.55 (d, <i>J</i> = 8.1 Hz, 2H), 7.60 (s, 1H), 7.96 (d, <i>J</i> = 1.4 Hz, 1H).	548	
A7-86	¹ H NMR (400 MHz, CDCl ₃): δ 0.70 - 0.76 (m, 2H), 0.77 – 0.83 (m, 2H), 1.38 - 1.68 (m, 3H), 2.07 – 2.28 (m, 2H), 2.82 – 2.94 (m, 2H), 3.01 – 3.18 (m, 4H), 3.34 (dt, <i>J</i> = 10.0, 5.0 Hz, 1H), 4.10 – 4.21 (m, 1H), 4.84 (d, <i>J</i> = 2.7 Hz, 2H), 5.02 (s, 1H), 5.36 (s, 1H), 5.70 (s, 1H), 6.46 (dd, <i>J</i> = 2.4, 1.8 Hz, 1H), 6.93 (s, 1H), 7.35 (d, <i>J</i> = 8.6 Hz, 2H), 7.63 (d, <i>J</i> = 8.6 Hz, 2H), 7.71 (d, <i>J</i> = 1.4 Hz, 1H), 7.87 – 7.93 (m, 1H), 7.98 (d, <i>J</i> = 1.3 Hz, 1H).	495	

A7-87	¹ H NMR (400 MHz, CDCl ₃): δ 0.68 – 0.75 (m, 2H), 0.77 – 0.81 (m, 2H), 1.35 – 1.46 (m, 4H), 1.88 (m, 4H), 2.90 (m, 1H), 3.07 (m, 4H), 3.74 – 3.96 (m, 3H), 4.86 (d, <i>J</i> = 2.3 Hz, 2H), 5.01 (s, 1H), 5.43 (s, 1H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 7.56 (d, <i>J</i> = 8.1 Hz, 2H), 7.93 (d, <i>J</i> = 1.3 Hz, 1H).	511	
B4-1-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.97 (s, 1H), 7.54 (d, <i>J</i> = 8.0 Hz, 2H), 7.34 (d, <i>J</i> = 7.6 Hz, 2H), 6.89 (br s, 1H), 5.67-5.63 (m, 2H), 4.84 (s, 2H), 3.62-3.56 (m, 1H), 3.37-3.30 (m, 1H), 3.23 (br s, 1H), 3.01 (dd, <i>J</i> = 28.8, 16.4 Hz, 2H), 2.90-2.85 (m, 2H), 2.69 (d, <i>J</i> = 10.8 Hz, 1H), 2.23-2.13 (m, 2H), 1.81-1.69 (m, 4H), 1.50-1.44 (m, 1H), 1.34 (s, 3H), 0.79-0.69 (m, 4H).	511	IF (CO ₂ :EtOH: DEA=60:40: 0.3)
B4-1-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.97 (s, 1H), 7.54 (d, <i>J</i> = 7.6 Hz, 2H), 7.34 (d, <i>J</i> = 7.6 Hz, 2H), 6.87 (br s, 1H), 5.62 (br s, 2H), 4.85 (s, 2H), 3.62-3.56 (m, 1H), 3.37-3.30 (m, 1H), 3.16 (br s, 1H), 3.00 (dd, <i>J</i> = 28.4, 16.4 Hz, 2H), 2.98-2.86 (m, 2H), 2.68 (d, <i>J</i> = 10.4 Hz, 1H), 2.21-2.11 (m, 2H), 1.81-1.71 (m, 4H), 1.48-1.44 (m, 1H), 1.34 (s, 3H), 0.79-0.69 (m, 4H).	511	IF (CO ₂ :EtOH: DEA=60:40: 0.3)
B4-1-2-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.97 (s, 1H), 7.54 (d, <i>J</i> = 8.4 Hz, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 6.73 (br s, 1H), 5.62-5.55 (m, 2H), 4.85 (s, 2H), 3.83-3.78 (m, 1H), 3.51-3.45 (m, 1H), 3.19 (s, 1H), 3.05 (s, 2H), 2.97-2.95 (m, 1H), 2.88-2.85 (m, 1H), 2.68-2.65 (m, 1H), 2.20-2.14 (m, 2H), 1.84-1.79 (m, 1H), 1.66-1.54 (m, 5H), 1.29-1.25 (m, 4H), 0.77-0.69 (m, 4H).	511	ID (CO ₂ :EtOH= 60:40)
B4-1-2-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.97 (s, 1H), 7.54 (d, <i>J</i> = 8.4 Hz, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 6.75 (br s, 1H), 5.62-5.59 (m, 2H), 4.84 (s, 2H), 3.84-3.78 (m, 1H), 3.51-3.45 (m, 1H), 3.22 (s, 1H), 3.05 (s, 2H), 2.97-2.94 (m, 1H), 2.88-2.84 (m, 1H), 2.68-2.65 (m, 1H), 2.20-2.14 (m, 2H), 1.84-1.76 (m, 1H), 1.69-1.54 (m, 5H), 1.29-1.25 (m, 4H), 0.77-0.69 (m, 4H).	511	ID (CO ₂ :EtOH= 60:40)
B4-2-1-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.83 (d, <i>J</i> = 0.8 Hz, 1 H), 7.60 (d, <i>J</i> = 8.4 Hz, 1 H), 7.43 (d, <i>J</i> = 8.0 Hz, 1 H), 4.86 (s, 2 H), 3.66-3.57 (m, 2 H), 3.06-3.03 (m, 2 H), 2.93-2.90 (m, 1 H), 2.79-2.76 (m, 1 H), 2.69-2.66 (m, 1 H), 2.41-2.32 (m, 2 H), 1.77-1.72 (m, 1 H), 1.38-1.29 (m, 2 H), 0.94 (s, 3 H), 0.80-0.79 (m, 2 H), 0.71-0.70 (m, 2 H).	511	IA (Hex:EtOH: DEA=60:40: 0.3)

B4-2-1-2	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 0.8 Hz, 1 H), 7.61 (d, <i>J</i> = 8.4 Hz, 1 H), 7.44 (d, <i>J</i> = 8.0 Hz, 1 H), 4.89 (s, 2 H), 3.67-3.58 (m, 2 H), 3.07-3.03 (m, 2 H), 2.94-2.91 (m, 1 H), 2.79-2.75 (m, 1 H), 2.68-2.65 (m, 1 H), 2.40-2.28 (m, 2 H), 1.77-1.76 (m, 1 H), 1.38-1.30 (m, 2 H), 0.95 (s, 3 H), 0.82-0.79 (m, 2 H), 0.74-0.72 (m, 2 H).	511	IA (Hex:EtOH: DEA=60:40: 0.3)
C4-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.93 (s, 1H), 7.57 (d, <i>J</i> = 8 Hz, 2H), 7.36 (d, <i>J</i> = 7.6 Hz, 2H), 6.93 (s, 1H), 5.50-5.55 (m, 2H), 5.04-5.06 (m, 1H), 4.88 (s, 2H), 4.17 (d, <i>J</i> = 11.6 Hz, 1H), 3.99-4.05 (m, 1H), 3.67-3.69 (m, 1H), 3.36-3.47 (m, 2H), 3.02-3.13 (dd, <i>J</i> = 26.8, 16.4 Hz, 2H), 2.90-2.97 (m, 2H), 2.56-2.64 (m, 2H), 2.29-2.33 (m, 1H), 1.49-1.52 (m, 2H), 0.77-0.82 (m, 2H), 0.73-0.75 (m, 2H).	527	IF (Hex:EtOH: DEA=60:40: 0.3)
C4-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.97 (s, 1H), 7.61 (d, <i>J</i> = 8.4 Hz, 2H), 7.40 (d, <i>J</i> = 8 Hz, 2H), 6.97 (s, 1H), 5.52 (s, 1), 5.08 (s, 1H), 4.92 (s, 2H), 4.22 (d, <i>J</i> = 12.6 Hz, 1H), 4.03-4.07 (m, 1H), 3.70-3.73 (m, 1H), 3.39-3.51 (m, 2H), 3.06-3.17 (m, 2H), 2.94-3.01 (m, 2H), 2.59-2.68 (m, 2H), 2.32-2.36 (m, 1H), 1.49-1.57 (m, 2H), 0.81-0.92 (m, 2H), 0.71-0.81 (m, 2H).	527	IF (Hex:EtOH: DEA=60:40: 0.3)
C4-2-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (s, 1H), 7.79 (s, 1H), 7.72 (s, 2H), 6.94 (s, 1H), 5.53-5.56 (m, 2H), 5.20 (br, 1H), 5.00-5.04 (m, 1H), 4.84-4.93 (dd, <i>J</i> = 20.0, 16.8 Hz, 2H), 4.15-4.20 (m, 1H), 3.98-4.04 (dd, <i>J</i> = 14.8, 7.2 Hz, 1H), 3.67-3.70 (m, 1H), 3.53-3.58 (m, 2H), 3.36-3.48 (m, 2H), 3.02-3.13 (dd, <i>J</i> = 27.2, 16.4 Hz, 2H), 2.93-2.97 (m, 1H), 2.56-2.64 (dd, <i>J</i> = 20.4, 12.4 Hz, 2H), 2.28-2.35 (m, 1H), 1.49-1.52 (m, 2H), 1.23-1.27 (t, <i>J</i> = 6.8 Hz, 3H).	583	IG (Hex:EtOH= 60:40)
C4-2-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (d, <i>J</i> = 1.6 Hz, 1H), 7.79 (s, 1H), 7.72 (s, 2H), 6.94 (s, 1H), 5.53-5.57 (m, 2H), 5.21 (br, 1H), 5.00-5.05 (m, 1H), 4.83-4.93 (dd, <i>J</i> = 20.0, 16.4 Hz, 2H), 4.15-4.20 (m, 1H), 3.98-4.04 (dd, <i>J</i> = 14.8, 7.2 Hz, 1H), 3.67-3.70 (m, 1H), 3.53-3.58 (dd, <i>J</i> = 13.6, 6.8 Hz, 2H), 3.36-3.48 (m, 2H), 3.02-3.13 (dd, <i>J</i> = 26.8, 16.4 Hz, 2H), 2.93-2.97 (m, 1H), 2.56-2.64 (dd, <i>J</i> = 20.0, 10.4 Hz, 2H), 2.28-2.35 (m, 1H), 1.49-1.54 (m, 2H), 1.23-1.34 (t, <i>J</i> = 7.2 Hz, 3H).	583	IG (Hex:EtOH= 60:40)
D5-1-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.58 (d, <i>J</i> = 8.0 Hz, 2H), 7.36 (d, <i>J</i> = 8.0 Hz, 2H), 6.98 (br s, 1H), 5.60 (br s, 1H), 5.33 (br s, 1H), 5.03 (br s, 1H), 4.84 (dd, <i>J</i> = 22.0, 16.0 Hz, 2H), 3.74 (q, <i>J</i> = 7.2 Hz, 1H), 3.60-3.49 (m, 3H), 3.35 (brs, 1H), 3.15 (dd, <i>J</i> = 14.8, 6.0 Hz, 1H), 3.05 (s, 2H), 2.80-2.76 (m, 1H), 2.60-2.54 (m, 2H), 2.45 (t, <i>J</i> = 10.8 Hz, 1H), 1.78-1.62 (m, 2H), 1.22 (t, <i>J</i> = 7.2 Hz, 3H).	501	IG (Hex:EtOH= 50:50)

D5-1-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.58 (d, <i>J</i> = 8.4 Hz, 2H), 7.36 (d, <i>J</i> = 8.4 Hz, 2H), 6.98 (br s, 1H), 5.48 (br s, 1H), 5.32 (br s, 1H), 5.01 (br s, 1H), 4.84 (dd, <i>J</i> = 22.0, 16.8 Hz, 2H), 3.74 (q, <i>J</i> = 7.2 Hz, 1H), 3.58-3.52 (m, 3H), 3.32 (brs, 1H), 3.15 (dd, <i>J</i> = 14.4, 6.0 Hz, 1H), 3.04 (s, 2H), 2.79-2.75 (m, 1H), 2.63-2.53 (m, 2H), 2.44 (t, <i>J</i> = 10.8 Hz, 1H), 1.77-1.64 (m, 2H), 1.22 (t, <i>J</i> = 7.2 Hz, 3H).	501	IG (Hex:EtOH= 50:50)
D5-1-2-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.88 (s, 1H), 7.57 (d, <i>J</i> = 8.0 Hz, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 3H), 5.63 (br s, 1H), 5.26 (br s, 2H), 4.83 (s, 2H), 3.85-3.79 (m, 2H), 3.56-3.51 (m, 2H), 3.44 (s, 1H), 3.22 (dd, <i>J</i> = 14.8, 5.6 Hz, 1H), 3.11-3.00 (m, 2H), 2.82-2.70 (m, 3H), 2.61-2.56 (m, 1H), 2.01-1.96 (m, 1H), 1.48-1.44 (m, 1H), 1.20 (t, <i>J</i> = 7.2 Hz, 3H).	501	IE (Hex:EtOH= 50:50)
D5-1-2-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.89 (s, 1H), 7.57 (d, <i>J</i> = 8.0 Hz, 2H), 7.35 (d, <i>J</i> = 8.0 Hz, 2H), 7.30 (br s, 1H), 5.54 (br s, 1H), 5.21 (br s, 2H), 4.83(s, 2H), 3.86-3.81(m, 1H), 3.73 (br s, 1H), 3.54 (q, <i>J</i> = 5.6 Hz, 2H), 3.43 (s, 1H), 3.20 (dd, <i>J</i> = 14.8 and 6.0 Hz, 1H), 3.05 (dd, <i>J</i> = 26.4, 16.4 Hz, 2H), 2.82-2.79 (m, 1H), 2.74-2.69 (m, 2H), 2.61-2.54 (m, 1H), 2.02-1.94 (m, 1H), 1.47-1.44 (m, 1H), 1.20 (t, <i>J</i> = 6.8 Hz, 3H).	501	IE (Hex:EtOH= 50:50)
D5-2-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (s, 1H), 7.56 (d, <i>J</i> = 8.4 Hz, 2H), 7.35 (d, <i>J</i> = 7.6 Hz, 2H), 6.93 (br s, 1H), 5.53 (br s, 1H), 5.23 (br s, 1H), 5.11 (br s, 1H), 4.87 (s, 2H), 3.73 (q, <i>J</i> = 7.2 Hz, 1H), 3.56-3.53 (m, 1H), 3.33 (s, 1H), 3.17 (dd, <i>J</i> = 14.4, 6.4 Hz, 1H), 3.04 (s, 2H), 2.92-2.90 (m, 1H), 2.79-2.75 (m, 1H), 2.60-2.55 (m, 2H), 2.44 (t, <i>J</i> = 10.4 Hz, 1H), 1.75-1.68 (m, 2H), 0.79-0.72 (m, 4H).	513	IG (Hex:EtOH: DEA=60:40: 0.3)
D5-2-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.55 (d, <i>J</i> = 8.0 Hz, 2H), 7.34 (d, <i>J</i> = 8.0 Hz, 3H), 5.59 (br s, 1H), 5.33 (br s, 1H), 5.31 (br s, 1H), 4.86 (dd, <i>J</i> = 24.0, 16.0 Hz, 2H), 3.84 (q, <i>J</i> = 7.2 Hz, 1H), 3.78-3.75 (m, 1H), 3.44 (s, 1H), 3.23(dd, <i>J</i> = 14.8, 6.0 Hz, 1H), 3.05 (dd, <i>J</i> = 25.2, 16.8 Hz, 2H), 2.93-2.88 (m, 1H), 2.82-2.69 (m, 3H), 2.61-2.55 (m, 1H), 2.03-1.95 (m, 1H), 1.46 (d, <i>J</i> = 12.4 Hz, 1H), 0.80-0.71 (m, 4H).	513	IG (Hex:EtOH: DEA=60:40: 0.3)
D5-2-2-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.92 (s, 1H), 7.56 (d, <i>J</i> = 8.0 Hz, 2H), 7.35 (d, <i>J</i> = 8.4 Hz, 2H), 6.92 (br s, 1H), 5.47 (br s, 1H), 5.22 (br s, 1H), 5.09 (br s, 1H), 4.87 (s, 2H), 3.74 (q, <i>J</i> = 7.2 Hz, 1H), 3.56-3.53 (m, 1H), 3.31 (s, 1H), 3.17 (dd, <i>J</i> = 14.8, 6.0 Hz, 1H), 3.04 (s, 2H), 2.92-2.90 (m, 1H), 2.79-2.75 (m, 1H), 2.61-2.55 (m, 2H), 2.44 (t, <i>J</i> = 10.4 Hz, 1H), 1.75-1.66 (m, 2H), 0.79-0.72 (m, 4H).	513	IG (Hex:EtOH: DEA=70:30: 0.3)

D5-2-2-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.55 (d, <i>J</i> = 8.4 Hz, 2H), 7.34 (d, <i>J</i> = 8.4 Hz, 2H), 7.30 (br s, 1H), 5.55 (br s, 1H), 5.31 (br s, 1H), 5.18 (br s, 1H), 4.86 (dd, <i>J</i> = 24.0, 16.0 Hz, 2H), 3.84 (q, <i>J</i> = 6.8 Hz, 1H), 3.72 (br s, 1H), 3.44 (s, 1H), 3.23 (dd, <i>J</i> = 14.8, 6.0 Hz, 1H), 3.05 (dd, <i>J</i> = 25.2, 16.4 Hz, 2H), 2.93-2.89 (m, 1H), 2.82-2.70 (m, 3H), 2.61-2.55 (m, 1H), 2.03-1.95 (m, 1H), 1.46 (d, <i>J</i> = 13.2 Hz, 1H), 0.79-0.71 (m, 4H).	513	IG (Hex:EtOH: DEA=70:30: 0.3)
D5-3-1-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.40-7.31 (m, 3H), 6.94 (br s, 1H), 5.59 (br s, 1H), 5.22 (br s, 1H), 5.04 (br s, 1H), 4.87 (s, 2H), 3.76-3.71 (m, 1H), 3.59-3.56 (m, 3H), 3.34 (s, 1H), 3.19-3.14 (m, 1H), 3.04 (s, 2H), 2.78-2.76 (m, 1H), 2.60-2.54 (m, 2H), 2.44 (t, <i>J</i> = 10.4 Hz, 1H), 1.72-1.66 (m, 2H), 1.24 (t, <i>J</i> = 6.8 Hz, 3H).	519	IF (Hex:EtOH: DEA=60:40: 0.3)
D5-3-1-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.91 (s, 1H), 7.38-7.31 (m, 3H), 6.94 (br s, 1H), 5.56 (br s, 1H), 5.22 (br s, 1H), 5.03 (br s, 1H), 4.87 (s, 2H), 3.76-3.71 (m, 1H), 3.61-3.56 (m, 3H), 3.34 (s, 1H), 3.19-3.14 (m, 1H), 3.04 (s, 2H), 2.78-2.76 (m, 1H), 2.60-2.57 (m, 2H), 2.44 (t, <i>J</i> = 10.4 Hz, 1H), 1.76-1.69 (m, 2H), 1.24 (t, <i>J</i> = 6.4 Hz, 3H).	519	IF (Hex:EtOH: DEA=60:40: 0.3)
D5-3-2-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.88 (s, 1H), 7.38-7.31 (m, 4H), 5.60 (br s, 1H), 5.26 (br s, 1H), 5.15 (br s, 1H), 4.86 (s, 2H), 3.86-3.80 (m, 2H), 3.57-3.55 (m, 2H), 3.44 (s, 1H), 3.25-3.20 (m, 1H), 3.11-3.00 (m, 2H), 2.82-2.70 (m, 3H), 2.62-2.56 (m, 1H), 2.02-1.95 (m, 1H), 1.48-1.45 (m, 1H), 1.23 (t, <i>J</i> = 6.8 Hz, 3H).	519	IF (Hex:EtOH: DEA=70:30: 0.3)
D5-3-2-2	¹ H NMR (400 MHz, CDCl ₃): δ 7.88 (s, 1H), 7.36-7.31 (m, 4H), 5.67 (br s, 1H), 5.30-5.23 (m, 2H), 4.86 (s, 2H), 3.96 (br s, 1H), 3.84-3.79 (m, 1H), 3.57-3.55 (m, 2H), 3.44 (s, 1H), 3.26-3.21 (m, 1H), 3.12-3.01 (m, 2H), 2.83-2.71 (m, 3H), 2.63-2.57 (m, 1H), 2.02-1.95 (m, 1H), 1.48-1.45 (m, 1H), 1.23 (t, <i>J</i> = 6.8 Hz, 3H).	519	IF (Hex:EtOH: DEA=70:30: 0.3)
D5-4''	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 8.65 (s, 1H), 7.83 (s, 1H), 7.64 (d, <i>J</i> = 8.0 Hz, 2H), 7.39 (d, <i>J</i> = 8.3 Hz, 2H), 7.17 (s, 1H), 7.05 (s, 1H), 6.74 (s, 1H), 4.89 (d, <i>J</i> = 6.0 Hz, 1H), 4.79 (s, 2H), 4.21 (s, 1H), 3.58-3.40 (m, 4H), 2.81 (bs, 2H), 2.50 (m, 2H), 2.44 (d, <i>J</i> = 9.8 Hz, 1H), 2.32-2.14 (m, 2H), 1.62-1.50 (m, 1H), 1.45 (d, <i>J</i> = 13.6 Hz, 1H), 1.14 (t, <i>J</i> = 6.9 Hz, 3H).	599	

D5-5-1	¹ H NMR (400 MHz, CDCl ₃): δ 7.95 (d, <i>J</i> = 1.2 Hz, 1H), 7.72 (d, <i>J</i> = 0.7 Hz, 1H), 7.58 (s, 1H), 7.25 – 7.10 (m, 3H), 6.93 (b.s, 1H), 5.35 (s, 1H), 5.24 (s, 1H), 5.05 (d, <i>J</i> = 3.2 Hz, 1H), 4.86 (s, 2H), 3.94 (s, 3H), 3.74 (dd, <i>J</i> = 14.6, 7.2 Hz, 1H), 3.55 (b.s, 1H), 3.31 (b.s, 1H), 3.17 (dd, <i>J</i> = 14.4, 5.8 Hz, 1H), 3.05 (s, 2H), 2.91 (dq, <i>J</i> = 6.4, 3.0 Hz, 1H), 2.78 (b.s, 1H), 2.67 – 2.52 (m, 2H), 2.45 (t, <i>J</i> = 10.6 Hz, 1H), 1.77 – 1.65 (m, 2H), 0.86 – 0.78 (m, 2H), 0.77 – 0.72 (m, 2H).	543	Lux A2 (EtOH:CO ₂ = 45:55)
D5-5-2	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 8.15 (s, 1H), 7.87 (d, <i>J</i> = 0.7 Hz, 1H), 7.86 (d, <i>J</i> = 1.5 Hz, 1H), 7.43 – 7.29 (m, 2H), 7.26 – 7.14 (m, 2H), 7.05 (s, 1H), 6.82 (s, 1H), 4.89 (s, 1H), 4.77 (s, 2H), 3.85 (s, 3H), 3.55 – 3.40 (m, 3H), 3.40 – 3.26 (m, 2H), 2.60 – 2.40 (m, 3H), 2.32 – 2.16 (m, 2H), 1.64 – 1.42 (m, 2H), 0.80 – 0.63 (m, 4H).	543	Lux A2 (EtOH:CO ₂ = 45:55)
D5-6''	¹ H NMR (400 MHz, DMSO- <i>d</i> ₆): δ 8.63 (s, 1H), 7.84 (d, <i>J</i> = 1.5 Hz, 1H), 7.62 (d, <i>J</i> = 8.2 Hz, 2H), 7.36 (d, <i>J</i> = 8.5 Hz, 2H), 7.17 (s, 1H), 7.05 (s, 1H), 6.84 (s, 1H), 4.88 (d, <i>J</i> = 6.1 Hz, 1H), 4.81 (s, 2H), 3.47 (ddt, <i>J</i> = 16.8, 10.7, 6.0 Hz, 2H), 3.38 – 3.27 (m, 1H), 2.96 – 2.87 (m, 1H), 2.81 (d, <i>J</i> = 1.5 Hz, 2H), 2.61 – 2.50 (m, 2H), 2.31 – 2.15 (m, 2H), 1.62 – 1.41 (m, 3H), 0.78 – 0.65 (m, 4H).	611	
D5-7''	¹ H NMR (400 MHz, CDCl ₃): δ 8.51 (dt, <i>J</i> = 4.1, 2.2 Hz, 2H), 7.85 (dd, <i>J</i> = 8.7, 1.5 Hz, 1H), 7.55 (d, <i>J</i> = 8.3 Hz, 2H), 7.34 (d, <i>J</i> = 8.1 Hz, 2H), 7.21 (d, <i>J</i> = 6.0 Hz, 2H), 7.05 (brs, 1H), 6.51 (brs, 1H), 5.34 (brd, <i>J</i> = 6.7 Hz, 1H), 4.81 (s, 2H), 3.92 (d, <i>J</i> = 7.0 Hz, 1H), 3.73 – 3.45 (m, 4.5H), 3.41 (s, 2H), 3.13 (dd, <i>J</i> = 14.5, 5.8 Hz, 1H), 2.83 (m, 0.5H), 2.70 (d, <i>J</i> = 10.6 Hz, 0.5H), 2.53-2.35 (m, 2H), 2.15 (dt, <i>J</i> = 10.6, 5.2 Hz, 0.5H), 2.02 (t, <i>J</i> = 10.5 Hz, 0.5H), 1.82 – 1.49 (m, 2H), 1.19 (t, <i>J</i> = 7.0 Hz, 3H).	578	
D5-7-1	¹ H NMR (400 MHz, CDCl ₃): δ 8.51 (dt, <i>J</i> = 4.1, 2.2 Hz, 2H), 7.85 (dd, <i>J</i> = 8.7, 1.5 Hz, 1H), 7.55 (d, <i>J</i> = 8.3 Hz, 2H), 7.34 (d, <i>J</i> = 8.1 Hz, 2H), 7.21 (d, <i>J</i> = 6.0 Hz, 2H), 7.05 (brs, 1H), 6.51 (brs, 1H), 5.34 (brd, <i>J</i> = 6.7 Hz, 1H), 4.81 (s, 2H), 3.92 (d, <i>J</i> = 7.0 Hz, 1H), 3.73 – 3.45 (m, 4.5H), 3.41 (s, 2H), 3.13 (dd, <i>J</i> = 14.5, 5.8 Hz, 1H), 2.83 (m, 0.5H), 2.70 (d, <i>J</i> = 10.6 Hz, 0.5H), 2.53-2.35 (m, 2H), 2.15 (dt, <i>J</i> = 10.6, 5.2 Hz, 0.5H), 2.02 (t, <i>J</i> = 10.5 Hz, 0.5H), 1.82 – 1.49 (m, 2H), 1.19 (t, <i>J</i> = 7.0 Hz, 3H).	578	IC (CO ₂ :EtOH = 60:40)

D5-7-2	¹ H NMR (400 MHz, CDCl ₃): δ 8.51 (dt, <i>J</i> = 4.1, 2.2 Hz, 2H), 7.85 (dd, <i>J</i> = 8.7, 1.5 Hz, 1H), 7.55 (d, <i>J</i> = 8.3 Hz, 2H), 7.34 (d, <i>J</i> = 8.1 Hz, 2H), 7.21 (d, <i>J</i> = 6.0 Hz, 2H), 7.05 (brs, 1H), 6.51 (brs, 1H), 5.34 (brd, <i>J</i> = 6.7 Hz, 1H), 4.81 (s, 2H), 3.92 (d, <i>J</i> = 7.0 Hz, 1H), 3.73 – 3.45 (m, 4.5H), 3.41 (s, 2H), 3.13 (dd, <i>J</i> = 14.5, 5.8 Hz, 1H), 2.83 (m, 0.5H), 2.70 (d, <i>J</i> = 10.6 Hz, 0.5H), 2.53-2.35 (m, 2H), 2.15 (dt, <i>J</i> = 10.6, 5.2 Hz, 0.5H), 2.02 (t, <i>J</i> = 10.5 Hz, 0.5H), 1.82 – 1.49 (m, 2H), 1.19 (t, <i>J</i> = 7.0 Hz, 3H).	578	IC (CO ₂ :EtOH = 60:40)
D5-8''	¹ H NMR (400 MHz, CDCl ₃): δ 8.52 (dt, <i>J</i> = 4.0, 2.3 Hz, 2H), 7.88 (dd, <i>J</i> = 8.7, 1.0 Hz, 1H), 7.54 (d, <i>J</i> = 8.2 Hz, 2H), 7.33 (d, <i>J</i> = 8.0 Hz, 2H), 7.22 (d, <i>J</i> = 6.0 Hz, 2H), 7.05 (m, 1H), 6.49 (brs, 1H), 5.43 (m, 1H), 4.84 (d, <i>J</i> = 5.2 Hz, 2H), 3.92 (d, <i>J</i> = 7.5 Hz, 1H), 3.63 (m, 2H), 3.50 (m, 0.5H), 3.42 (s, 2H), 3.17 (dd, <i>J</i> = 14.4, 5.6 Hz, 1H), 2.96 – 2.77 (m, 1.5H), 2.71 (m, 1H), 2.51 (m, 1H), 2.39 (m, 1H), 2.17 (t, <i>J</i> = 9.0 Hz, 0.5H), 2.03 (t, <i>J</i> = 10.4 Hz, 0.5H), 1.81 – 1.51 (m, 2H), 0.88 – 0.63 (m, 4H).	590	
D5-9''	¹ H NMR (400 MHz, CDCl ₃): δ 7.95 (d, <i>J</i> = 1.1 Hz, 1H), 7.89 (d, <i>J</i> = 2.4 Hz, 1H), 7.72 (d, <i>J</i> = 1.6 Hz, 1H), 7.47 (dd, <i>J</i> = 11.0, 2.0 Hz, 1H), 7.39 (dd, <i>J</i> = 8.3, 2.1 Hz, 1H), 7.32 (t, <i>J</i> = 8.1 Hz, 1H), 6.93 (s, 1H), 6.50 – 6.44 (m, 1H), 5.40 (s, 1H), 5.06 (s, 1H), 4.89 (s, 2H), 3.75 (dd, <i>J</i> = 14.6, 7.2 Hz, 1H), 3.55 (dd, <i>J</i> = 10.5, 4.9 Hz, 1H), 3.17 (dd, <i>J</i> = 14.5, 6.1 Hz, 1H), 3.05 (s, 2H), 2.97 – 2.86 (m, 1H), 2.78 (dd, <i>J</i> = 10.2, 4.5 Hz, 1H), 2.57 (td, <i>J</i> = 11.4, 3.4 Hz, 2H), 2.45 (t, <i>J</i> = 10.6 Hz, 1H), 2.26 – 2.18 (m, 1H), 1.77 – 1.68 (m, 2H), 0.84 – 0.79 (m, 2H), 0.77 – 0.70 (m, 2H).	529	
D5-10''	¹ H NMR (400 MHz, CDCl ₃): δ 7.94 (s, 1H), 7.22 (d, <i>J</i> = 7.5 Hz, 2H), 7.10 – 7.03 (m, 3H), 5.35 (s, 1H), 5.03 (s, 1H), 4.88 (s, 1H), 3.74 (dd, <i>J</i> = 14.6, 7.2 Hz, 1H), 3.59 – 3.52 (m, 1H), 3.16 (dd, <i>J</i> = 14.4, 6.0 Hz, 1H), 3.05 (s, 2H), 2.89 (d, <i>J</i> = 7.1 Hz, 1H), 2.78 (s, 1H), 2.68 – 2.53 (m, 2H), 2.48 – 2.41 (m, 1H), 1.79 – 1.64 (m, 2H), 0.82 – 0.77 (m, 2H), 0.76 – 0.71 (m, 2H).	463	
E6-1	¹ H NMR (400 MHz, CD ₃ OD): δ 7.85 (d, <i>J</i> = 1.2 Hz, 1H), 7.59 (d, <i>J</i> = 8.0 Hz, 1H), 7.43 (d, <i>J</i> = 8.4 Hz, 1H), 4.87 (s, 2H), 3.49 (s, 2H), 3.02 (s, 2H), 2.92-2.88 (m, 1H), 2.65-2.51 (m, 4H), 1.77-1.70 (m, 2H), 1.56-1.53 (m, 2H), 0.81-0.77 (m, 2H), 0.70-0.67 (m, 2H).	496	
F2-1	ND	417	

F2-2	ND	471	
F2-3	ND	471	
F2-4	ND	485	
F2-5	ND	431	
F2-6	ND	451	
F2-7	ND	487	
F2-8	ND	428	
F2-9	ND	513	
F2-10	ND	511	
F2-11	ND	456	
F2-12	ND	455	
F2-13	ND	469	
F2-14	ND	499	
F2-15	ND	465	
F2-16	ND	515	
F2-17	ND	499	
F2-18	ND	428	
F2-19	ND	434	
F2-20	ND	469	
F2-21	ND	471	

F2-22	ND	487	
F2-23	ND	465	

Biological evaluation

The activity of the compounds was evaluated using a ROR γ Reporter assay (also referred to as Gal4 assay). The Gal4 and the Th17 assays (another suitable assay) are both cell-based assays monitoring functional activity of the compound assayed.

The activity of the compounds disclosed was also evaluated using the IL-17A secretion in activated PBMCs assay.

Compounds disclosed herein have also been evaluated in a mouse *in vivo* pharmacodynamic model (anti-CD3-induced plasma IL-17A).

In addition, the compounds disclosed herein may be evaluated in various mouse disease models, e.g. Collagen-induced Arthritis (CIA) model (an animal model for rheumatoid arthritis) and Experimental Autoimmune Encephalomyelitis (EAE) model (an animal model for multiple sclerosis).

ROR γ Reporter Assay (Gal4)

The HEK293 cell line is co-transfected transiently with two plasmids, one with the ROR γ ligand-binding domain fused to galactose-responsive transcription factor (Gal4), and the other with the luciferase reporter gene and Gal binding sites (UAS). This construction allows to determine the ROR γ activity in a cellular system through the measurement of luminescence.

A suspension of ROR γ reporter cells was dispensed into plates and cultured 2 h at 37°C and 5% CO₂. Media formulation consisted in DMEM/F-12 medium (Gibco) supplemented with 10% heat inactivated FBS (Sigma-Aldrich), non-essential aminoacids (Sigma-Aldrich), 2 mM Glutamax (Gibco) and 100 U/mL penicillin (Sigma-Aldrich). Dose-response curves with compounds were prepared in 100% DMSO and further diluted 100-fold in culture medium. Compound solutions were added to the plate containing cells (final DMSO concentration of 0.1%) and incubated for 24 h at 37°C and 5% CO₂. Luciferase detection reagent was added to each well, and relative light units (RLUs) were quantified from each assay well using a plate reading luminometer.

Values of average RLU \pm S.D. were computed for all treatment sets, followed by the calculations of percent-reduction of ROR γ activity in response to respective test compound. The following formula was used: activity = 100 * [1 - [x test compound/average vehicle]where the theoretical minimum reduction (0% reduction). For all experiments, the activity values were plotted versus compound concentrations in one single plot and adjusted to a four-parameter logistic curve to obtain the absolute EC₅₀ value along with the 95% confidence interval. These calculations were performed in excel-fit software using X-204 model curve.

The results of ROR γ Reporter (Gal4) Assay are shown in the Table 2 below.

Table "2": ROR γ Reporter Assay (Gal4)

Patent example	EC ₅₀ (nM)	Patent example	EC ₅₀ (nM)	Patent example	EC ₅₀ (nM)
A7-01	0.9	A7-27-1	ND	A7-81	5.3
A7-01-1	1.3	A7-27-2	ND	A7-82	8.1
A7-01-2	1.5	A7-28	20.5	A7-83	>1000
A7-02	76	A7-28-1	42	A7-84	301
A7-03-1	44	A7-28-2	75	A7-85	7.9
A7-03-2	ND	A7-29	ND	A7-86	9.4
A7-04-1	28	A7-29-1	35	A7-87	181
A7-04-2	89	A7-29-2	70	B4-1-1-1	55
A7-05-1	4	A7-30	>1000	B4-1-1-2	5.1
A7-05-2	14	A7-31	29	B4-1-2-1	42
A7-06-1	44	A7-32	34	B4-1-2-2	170
A7-06-2	4	A7-33	ND	B4-2-1-1	7.5
A7-07-1	49	A7-34	90	B4-2-1-2	8.6
A7-07-2	93	A7-35	310	C4-1-1	5.3
A7-07-3	21	A7-36	860	C4-1-2	4.3
A7-07-4	170	A7-37	670	C4-2-1	ND
A7-08	15	A7-38	590	C4-2-2	ND
A7-09	44	A7-39	37	D5-01-1-1	0.9
A7-10	3.3	A7-40	5.5	D5-01-1-2	9.6
A7-11	72	A7-41	27	D5-01-2-1	ND
A7-12	150	A7-42	18	D5-01-2-2	ND
A7-13	230	A7-43	11	D5-02-1-1	1.2
A7-14	15	A7-44	24	D5-02-1-2	61
A7-14-1	8.3	A7-45	46	D5-02-2-1	1.9
A7-14-2	21	A7-46	>1000	D5-02-2-2	180
A7-15	160	A7-47	>1000	D5-03-1-1	1.6
A7-15-1	51	A7-48	17	D5-03-1-2	9.3
A7-15-2	310	A7-49	168	D5-03-2-1	ND
A7-16	19	A7-50	8.1	D5-03-2-2	ND

A7-16-1	25	A7-51	2.4	D5-04	5.5
A7-16-2	22	A7-52	42	D5-05-1	5.8
A7-17	ND	A7-53	>1000	D5-05-2	29
A7-17-1	40	A7-54	0.6	D5-06	16
A7-17-2	95	A7-54-1	3.8	D5-07	4.5
A7-18	130	A7-54-2	2.5	D5-07-1	2.9
A7-18-1	140	A7-55	4.7	D5-07-2	71
A7-18-2	82	A7-56	5.3	D5-08	6.1
A7-19	42	A7-57	7.9	D5-09	18
A7-19-1	40	A7-58	13	D5-10	>1000
A7-19-2	27	A7-59	14	E6-1	150
A7-20	26	A7-60	19	F2-01	ND
A7-20-1	35	A7-61	>1000	F2-02	ND
A7-20-2	32	A7-62	1.8	F2-03	99
A7-21	12	A7-63	3.4	F2-04	ND
A7-21-1	9.3	A7-64	73	F2-05	ND
A7-21-2	13	A7-65	5.8	F2-06	350
A7-22	4	A7-66-1	26	F2-07	30
A7-22-1	4.9	A7-66-2	88	F2-08	700
A7-22-2	3.4	A7-67	43	F2-09	ND
A7-23	81	A7-68	20	F2-10	ND
A7-23-1	81	A7-69	2.7	F2-11	ND
A7-23-2	100	A7-70	8.8	F2-12	ND
A7-24	120	A7-71	3.9	F2-13	ND
A7-24-1	ND	A7-72	52	F2-14	ND
A7-24-2	ND	A7-73	99	F2-15	ND
A7-25	330	A7-74	12	F2-16	ND
A7-25-1	630	A7-75	13	F2-17	ND
A7-25-2	320	A7-76	6.6	F2-18	ND
A7-26	17	A7-77	73	F2-19	ND
A7-26-1	27	A7-78	65	F2-20	ND
A7-26-2	8.5	A7-79	164	F2-21	ND
A7-27	540	A7-80	53	F2-22	ND
				F2-23	ND

As can be seen from the Table 2 above, the fluoropyrimidine derivatives of the present disclosure were found to show beneficial activity across the ROR γ Reporter (Gal4) Assay.

5 According to an embodiment, compounds having EC₅₀ < 1000 nM values in the ROR γ Reporter Assay (Gal4) are disclosed herein.

According to another preferred embodiment compounds having EC₅₀ < 500 nM values in the ROR γ Reporter Assay (Gal4) are disclosed herein.

According to another more preferred embodiment compounds having $EC_{50} < 100$ nM values in the ROR γ Reporter Assay (Gal4) are disclosed herein.

Th17 Assay (another suitable assay)

5 Human peripheral blood mononuclear cells (PBMCs) were isolated from buffy coats of healthy human volunteers using the Ficoll paque PLUS kit (GE Healthcare, cat no 17-1440-02), as instructed by the manufacturer. Naive CD4⁺ T cells were isolated with Naive CD4⁺ T cell kit, human (Milteny Biotec, cat no 130-094-131). The following modifications were made to the manufacturer's protocol: 1) Incubation with Biotin-Antibody Cocktail and Anti-Biotin
10 MicroBeads was prolonged to 30 minutes, and 2) Cells were washed with 40 mL of Miltenyi buffer. Differentiation of Th17 cells in anti-CD3 (BD Pharmingen, 5 μ g/ml) coated 96-well plates (400,000 cells/well, 160 μ l RPMI 1640 + 10 % Fetal Bovine Serum) containing 5 μ g/ml anti-CD28 (BD Pharmingen), 10 ng/ml IL-2 (R&D Systems), 2.5 ng/ml TGF β -1 (R&D Systems), 20 ng/ml IL-1 β (R&D Systems), 20 ng/ml IL-6 (R&D Systems), 30 ng/ml IL-23
15 (R&D Systems), 2.5 μ g/ml anti-IL-4 (R&D Systems) and 1 μ g/ml anti-IFN γ (R&D Systems) and with test compound during the entire differentiation (or vehicle, 0.1% DMSO for control). Test compounds were tested in triplicates, diluted 1000-fold in medium (final DMSO concentration is 0.1%). Incubated for seven days at 37°C, 5 % CO₂, 95% humidity, and 2-fluoro-4'-[[4-(4-pyridinylmethyl)-1-piperazinyl]methyl]- α,α -bis(trifluoromethyl)-[1,1'-
20 biphenyl]-4-methanol (SR2211 Calbiochem, Cat. No. 557353) was used as positive control. As negative control, cells were differentiated into Th0 using 5 μ g/ml anti-CD28 (BD Pharmingen), 10 ng/ml IL-2 (R&D Systems), 2 μ g/ml anti-IL4 (R&D Systems) and 2 μ g/ml anti-IFN γ (R&D Systems) are negative control. IL-17 levels in supernatants were measured with ELISA (R&D Systems). See Table 3 below.

25 Table 3

Example	EC ₅₀ (nM)
A7-3-1	83

IL-17A secretion in activated PBMCs

30 Heparin-treated whole blood from healthy human volunteers was supplied from Hospital de Sant Pau (Barcelona) under the approval of the local ethical review board for human studies (Hospital de Sant Pau, Barcelona, Spain). Human peripheral blood mononuclear

cells (PBMCs) were isolated from healthy human volunteers by density gradient centrifugation using the Ficoll-Paque (GE Healthcare). PBMCs were suspended in cell culture medium which consisted on RPMI 1640 medium (Sigma-Aldrich) containing 10% heat inactivated fetal bovine serum (Sigma-Aldrich), 2 mM L-Glutamine (Gibco), 20 mM Hepes (Gibco) and 100 U/mL penicillin (Sigma-Aldrich). Cells were seeded in 384-well plate (DiscoverX), at 40,000 cells per well and cultured 2 h at 37°C and 5% CO₂.

Dose-response curves with compounds were prepared using a 5-fold serial dilution (10 concentrations) in 100% DMSO and further diluted 100-fold in culture medium. Compound solutions (5 µL) were added to the plate containing cells (final DMSO concentration of 0.1%) and incubated for 30 min. Then, cells were stimulated with CD3/CD28 Dynabeads (ThermoFisher, at a bead-to-cell ratio of 1:1) for 48 h at 37°C and 5% CO₂.

IL-17A levels in supernatant were determined by immunoassay using hIL17A QBeads (Intellicyt) and by fluorescence analysis in iQue flow cytometer following the manufacturer's instructions. Inhibition of IL-17A secretion was calculated using the following formula: inhibition = 100 * [1 - [(x - mean basal condition)/(mean top condition - mean basal condition)]]. Activated DMSO-treated cells were used as top condition and activated GNE09461 (10 µM)-treated cells as basal condition. Inhibition values were plotted versus compound concentrations and adjusted to a four-parameter logistic curve to obtain the absolute IC₅₀ value along with the 95% confidence interval.

20

Table "4": IL-17A secretion in activated PBMCs

Patent example	IC ₅₀ (nM)	Patent example	IC ₅₀ (nM)
A7-01	8.7	A7-57	39
A7-01-1	6.3	A7-60	87
A7-01-2	2.7	A7-62	7.2
A7-02	58	A7-63	2.3
A7-09	190	A7-65	12
A7-10	17	A7-66-1	18
A7-11	200	A7-66-2	210
A7-14	28	A7-68	21
A7-14-1	38	A7-69	3.1
A7-14-2	110	A7-70	12
A7-21	80	A7-74	23
A7-26-2	29	A7-75	18
A7-28	120	A7-76	92
A7-28-1	62	A7-77	440
A7-28-2	81	A7-78	70%@10uM

A7-31	180	A7-81	120
A7-32	220	A7-82	150
A7-40	7.7	A7-85	120
A7-42	200	A7-86	55
A7-43	35	D5-01-1-1	1.9
A7-44	74	D5-01-1-2	24
A7-45	80	D5-03-1-1	3
A7-50	40	D5-04	1
A7-51	7.3	D5-05-1	23
A7-52	130	D5-05-2	200
A7-54	5.6	D5-07	2.5
A7-54-1	9.8	D5-08	2.7
A7-54-2	6.2		
A7-55	4.9		
A7-56	<u>66%@10uM</u>		

As can be seen from the Table 4 above, the fluoropyrimidine derivatives of the present disclosure were found to show beneficial activity across the IL-17A secretion in activated PBMCs Assay.

5 According to an embodiment, compounds having $IC_{50} < 500$ nM values in the IL-17A secretion in activated PBMCs Assay are disclosed herein.

According to another preferred embodiment, compounds having $IC_{50} < 200$ nM values in the IL-17A secretion in activated PBMCs Assay are disclosed herein.

10 According to another more preferred embodiment, compounds having $IC_{50} < 100$ nM values in the IL-17A secretion in activated PBMCs Assay are disclosed herein.

According to another still more preferred embodiment, compounds having $IC_{50} < 50$ nM values in the IL-17A secretion in activated PBMCs Assay are disclosed herein.

In vivo IL-17A induction in anti-CD3 model in mice

15 Male C57BL/6JRj mice (7 week old) were purchased from Janvier Labs and housed at the animal facilities of Almirall throughout the study. Animals were allowed to condition for 5 days in their new environment at $22^{\circ}C \pm 2^{\circ}C$, $55\% \pm 10\%$ relative humidity and 12 h:12 h light:dark cycles. Animals were housed in polycarbonate cages, with free access to water and non-purified stock diet (2014 Teklad Global 14% Protein Rodent Maintenance Diet, Envigo)
 20 during the full course of the studies. Care of animals was undertaken in compliance with the European Committee Directive 2010/63/EU, and the Catalan and Spanish law. All procedures were performed according to the ARRIVE guidelines (Animal Research: Reporting of In Vivo

Experiments) and with approval from the Animal Experimentation Ethical Committee of Almirall (Barcelona, Spain).

Mice were injected intraperitoneally with 7.5 µg of anti-CD3e (Clone 145-2C11 from Pharmingen BD) at 0 h (day 0) and 48 h (day 3) time-points. The non-induced-group were injected with PBS instead of anti-CD3e. At study completion (4 h after anti-CD3e injection), animals were anaesthetized with isoflurane (Baxter) and 0.5-1 mL blood samples were drawn by intracardiac puncture in heparinized tubes. Plasma samples were stored at -80°C for subsequent analysis.

Test compounds were freshly suspended in sterile 0.5% methylcellulose 0.1% tween-80 solution (10 mL/kg body weight). Compounds administered by oral gavage according to the selected dosing and body weight; control animals received an equivalent volume of vehicle. Treatments were given twice daily from day 0 to day 3, last administration was done 1 h before anti-CD3e injection.

Plasma levels of IL-17A were measured by ELISA (R&D Systems) according to the manufacturer's instruction. Results were calculated as the percentage of reduction of plasma IL-17A versus the difference between non-induced and anti-CD3e induced groups through the formula: inhibition = 100 * [1 - [(x - mean non-induced)/(mean control vehicle - mean non-induced)]]. The IL-17A inhibition for each treatment can be expressed as the mean for each treatment group ± S.E.M. Statistical analysis of data were conducted with one-way ANOVA followed by Dunnett's multiple comparisons test when appropriate. Differences were considered significant when $p \leq 0.05$.

Results:

Compound	Inhibition of IL-17A (%) at 3 mg/kg
A7-1-1	80%
D5-1-1-1	92%
D5-3-1-1	93%

Collagen-induced Arthritis (CIA) study

Collagen-induced arthritis is an animal model of rheumatoid arthritis used to evaluate the efficacy of test compounds. CIA was induced at Washington Biotechnology Inc. (Baltimore) in male DBA/1J mice (Jackson Laboratories) by subcutaneous injection at the base of the tail with 50 µl of a bovine collagen/complete Freund's adjuvant emulsion. After

21 days, the mice were further boosted by a further subcutaneous injection of 50 μ l of a collagen/incomplete Freund's adjuvant emulsion. For treatment, compound or vehicle (2% DMSO, 10% HP- β -CD in MilliQ water) was given orally twice daily at various doses selected from 3, 10, 30 mg/kg, beginning at the day of CIA induction (Prophylactic setting), or after disease initiation (at day 27, therapeutic setting). Treatment lasted until day 41, and the animals were scored three times weekly. Each paw was scored and the sum of all four scores was recorded as the Arthritic Index (AI). The maximum possible AI was 16. 0 = no visible effects of arthritis; 1 = edema and/or erythema of one digit; 2 = edema and/or erythema of 2 joints; 3 = edema and/or erythema of more than 2 joints; 4 = severe arthritis of the entire paw and digits including limb deformation and ankylosis of the joint. The Arthritis Index for each treatment can be expressed as the mean score for each treatment group +/- S.E.M.

For example, dosing of compound A7-1-1 @ 3 mpk p.o. b.i.d. resulted in 74% reduction in AI as compared to the anti-IL-17A antibody and dosing of compound A7-14-1 @ 10 mpk p.o. b.i.d. resulted in 80% reduction in AI as compared to the anti-IL-17A antibody.

In summary, compounds disclosed herein have been found to at least modulate the activity of ROR γ . Compounds disclosed herein are active, e.g. having a Gal4 < 1000 nM, such as < 500 nM, such as < 100 nM and. Additionally, in a property comparison study they have shown an improved lipophilicity manifested by a decrease in LogP and/or LogD compared to previously described high potent compounds, see e.g. Tables 5 a- c. Overall, compounds show an improved LipE (a parameter linking potency and lipophilicity of a given compound, used in medicinal chemistry and drug design to assess druglikeness), LipE = -log (EC₅₀) - cLogP. In these tables, all numbers (except Gal4 activity) are calculated; methods are indicated in column titles.

Table 5 a:

Examples	ROR γ Gal4 assay	Number of compounds	ALogP Canvas ¹	LipE Canvas ¹
Compounds disclosed herein	EC ₅₀ < 100 nM	121	2.72	5.09
Compounds disclosed in WO2016020288	EC ₅₀ < 100 nM ¹	35 ²	4.62	3.02

Table 5 b:

Examples	ROR γ Gal4 assay	Number of compounds	ALogP Canvas ¹	LipE Canvas ¹
Compounds disclosed herein	EC ₅₀ < 500 nM	137	2.66	4.96
Compounds disclosed in WO2016020288	EC ₅₀ < 500 nM ¹	59 ³	4.6	2.61

Table 5 c:

Examples	ROR γ Gal4 assay (based on % inhibition at 0.1 and/or 1 μ M)	Number of compounds	ALogP Canvas ¹
Compounds disclosed in WO2016020288	EC ₅₀ < 100 nM	61 ⁴	4.63
Compounds disclosed in WO2016020288	EC ₅₀ < 500 nM ¹	105 ⁵	4.66

5 ¹ average value based on “number of compounds”

² Gal4 of Examples A2; A3; A6; A7; A49; A53; A59; A61; A62; A63; A64; A69; A73; A75; A76; A78; A81; A83; A85; A89; A91; A97; A98; A101; A102; A104; A110; A167; A168; A169; A171; A165; A174; A175; T1; disclosed in WO2016020288.

10 ³ Gal4 of Examples, in addition to ⁽²⁾, A9; A58; A60; A65; A66; A67; A74; A77; A80; A82; A88; A103; A107; A108; A109; A111; A112; A114; A115; A170; A172; A176; A179; X; disclosed in WO2016020288.

15 ⁴ Gal4 of Examples in <100 range: A2; A3; A6; A7; A49; A53; A59; A61; A62; A63; A64; A69; A73; A75; A76; A78; A81; A83; A85; A89; A91; A97; A98; A101; A102; A104; A110; A167; A168; A169; A171; A165; A174; A175; T1; A8; A11; A14; A18; A22; A24; A25; A26; A28; A29; A30; A31; A35; A36; A37; A39; A41; A44; A54; A57; A128; A147; A158; A160; A161; A163 disclosed in WO2016020288.⁵ Gal4 of Examples in <500 range: A2; A3; A6; A7; A49; A53; A59; A61; A62; A63; A64; A69; A73; A75; A76; A78; A81; A83; A85; A89; A91; A97; A98; A101; A102; A104; A110; A167; A168; A169; A171; A165; A174; A175; T1; A9; A58; A60; A65; A66; A67; A74; A77; A80; A82; A88; A103; A107; A108; A109; A111; A112; A114; A115; A170; A172; A176; A179; X; A8; A11; A14; A18; A22; A24; A25; A26; A28; A29; A30; A31; A35; A36; A37; A39; A41; A44; A54; A57; A128; A147; A158; A160; A161; A163; A1; A5; A12; A13; A15; A19; A23; A27; A32; A33; A34; A38; A95; A105; A106; A120; A143; A159; A162; A181 disclosed in
20 WO2016020288.

The ROR γ Gal4 data used to generate the comparisons in Tables 5 a and b are based on generated Gal4 data for the listed compounds (data not available in WO2016020288). LipE has not been reported in Table 5 c as Gal4 data existed as % inhibition only, except for the compounds used in Tables 5 a and b. In connection with the above Tables 5 a-c, Tables 6 to 11 show a comparison between compounds of the present disclosure and known compounds of structural similarity, and considered relevant.

Table 6. ALogP numbers are calculated by Canvas. ⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein).

Structure		OR Enantiomer		OR Enantiomer		OR Enantiomer		
Ex. No	A7-5-1	A7-1-1	A7-6-2	A7-1-1	A7-6-2	C4-1-2	D5-2-2-1	
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	
ALogP Canvas	3.82	2.88	3.98	2.88	3.98	2.19	2.00	
Structure								
Ex. No	Example A2 ⁽¹⁾	Example A95 ⁽¹⁾	Example A11 ⁽¹⁾	Example A95 ⁽¹⁾	Example A11 ⁽¹⁾	Example A7 ⁽¹⁾	Example A44 ⁽¹⁾	
Gal4 assay	EC ₅₀ < 100 nM ⁽¹⁾	EC ₅₀ < 100 nM ⁽¹⁾	EC ₅₀ < 100 nM ⁽¹⁾	EC ₅₀ < 500 nM ⁽¹⁾	EC ₅₀ < 100 nM ⁽¹⁾	EC ₅₀ < 100 nM ⁽¹⁾	EC ₅₀ < 100 nM ⁽¹⁾	
ALogP Canvas	4.92	4.28	4.28	4.37	4.28	4.07	4.75	

Table 7. ALogP numbers are calculated by Canvas. ⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein).

Structure	AND Enant	AND Enantiome	
			Example A128 ⁽¹⁾ EC ₅₀ < 100 nM ⁽¹⁾ 5.60
Ex. No	A7-56	F2-7	Example A102 ⁽¹⁾ EC ₅₀ < 100 nM ⁽¹⁾ 6.09
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽¹⁾
ALogP Canvas	4.05	3.57	

Table 8. ALogP numbers are calculated by Canvas. ⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein).

Structure		
		Example A3 ⁽¹⁾ EC ₅₀ < 100 nM ⁽¹⁾ 5.29
Ex. No	A7-34	Example A3 ⁽¹⁾ EC ₅₀ < 100 nM ⁽¹⁾
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽¹⁾
ALogP Canvas	4.22	5.29

Table 9. ALogP numbers are calculated by Canvas. ⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein).

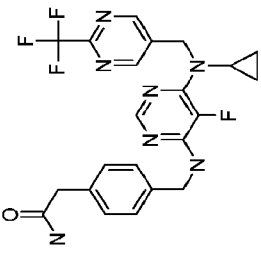
Structure		OR Enantiomer			
Ex. No	A7-3-1	A7-14-1	A7-9	Example A85 ⁽¹⁾	
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽¹⁾	
ALogP Canvas	3.04	1.94	1.64	3.98	

Table 10. ALogP numbers are calculated by Canvas. ⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein).

Structure		OR Enantiomer		
Ex. No	A7-45	A7-28-2	A7-11	Example A83 ⁽¹⁾
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽¹⁾
ALogP Canvas	2.3	2.16	1.86	4.19

Table 11. ALogP numbers are calculated by Canvas.

⁽¹⁾ WO2016020288, ⁽²⁾ Table 2 herein

Structure	OR Enantiomer	
Ex. No	A7-17-1	Example A98 ⁽¹⁾
Gal4 assay	EC ₅₀ < 100 nM ⁽²⁾	EC ₅₀ < 100 nM ⁽¹⁾
ALogP Canvas	1.20	3.24

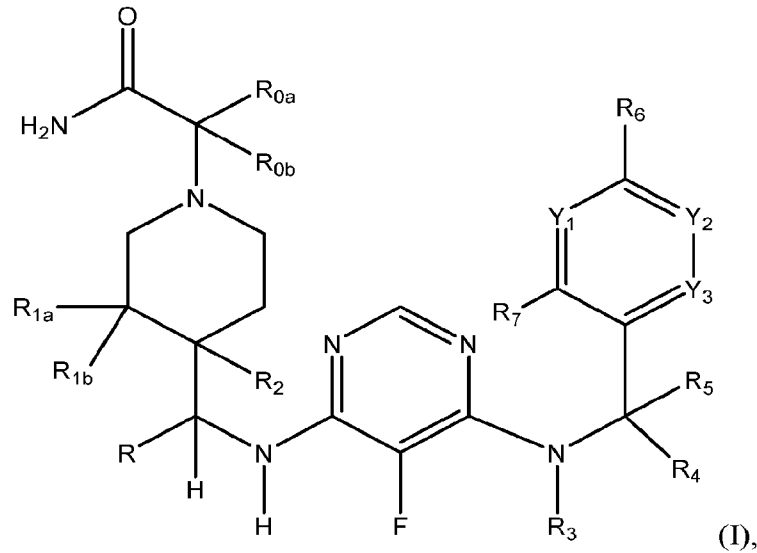
The ALogP and LipE are calculated using Canvas, a part of the Schrödinger software suite, Release 2019-1.

As mentioned, the compounds disclosed herein may thus be improved modulators
5 of ROR γ , e.g. having an attractive interaction (e.g. high binding ability) to the hydrophobic
binding sites of the ligand binding domain (LBD) of the ROR γ receptor and improved
physical chemical properties as discussed above.

Additionally it has been found that compounds disclosed herein have in vivo
usefulness, and could consequently be useful in treating inflammatory, metabolic and
10 autoimmune diseases or symptoms thereof.

CLAIMS

1. A compound according to Formula (I):



a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or
 5 stereoisomer, wherein:

Y_1 , Y_2 and Y_3 are independently N or CR₈;

R is selected from the group consisting of hydrogen, C₁₋₆ alkyl, and C₁₋₄ hydroxyalkyl;

R_{0a} and R_{0b} independently are selected from the group consisting of hydrogen, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ haloalkyl, CN, substituted or unsubstituted heteroalicycyl and substituted or unsubstituted heteroaryl;

10

R_{1a} and R_{1b} are independently selected from the group consisting of hydrogen, hydroxyl, halogen, amino, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, and C₁₋₄ haloalkyl;

R₂ is selected from the group consisting of hydrogen, hydroxyl, amino, cyano, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C(=O)OH, C(=O)NH₂, C(=O)O-C₁₋₄ alkyl, and substituted or unsubstituted heteroaryl;

15

R₃ is selected from the group consisting of C₁₋₄ alkyl, C₂₋₄ alkenyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ alkylene-C₁₋₄ alkoxy, substituted or unsubstituted C₃₋₇ cycloalkyl, and substituted or unsubstituted C₃₋₇ cycloalkenyl;

20

R₄ and R₅ are each independently hydrogen or C₁₋₄ alkyl, or R₄ and R₅ are taken together with the carbon atom to which they are attached to form a C₃₋₄ cycloalkyl;

R₆ is selected from the group consisting of hydrogen, CN, halogen, C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl;

5 R₇ is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl;

each R₈ independently is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl; and

10 whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ is selected from the group consisting of CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, and substituted or unsubstituted heteroaryl; and

15 when substituted, a heteroalicycyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl, hydroxy, C₁₋₄ alkoxy, and halogen; and

20 when substituted, a heteroaryl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, cyano, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy and C₁₋₆ hydroxyhaloalkyl; and

when substituted, a cycloalkyl or cycloalkenyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl and halogen.

2. The compound, stereoisomer, or salt according to claim 1, wherein R is hydrogen.

25 3. The compound, stereoisomer, or salt according to claim 1 or 2, wherein R₆ is selected from the group consisting of hydrogen, CN, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy, C₁₋₄ hydroxyalkyl, C₁₋₆ hydroxyhaloalkyl; 5 membered heteroaryl, and 5-membered heteroaryl substituted with 1 or 2 substituents independently selected from methyl or hydroxyethyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot
30 be hydrogen.

4. The compound, stereoisomer, or salt according to any one of claims 1-3, wherein R₆ is selected from the group consisting of hydrogen, CN, chloro, CF₃, CHF₂, CCH₃F₂, OCF₃, and OCHF₂, OCH₂F, C(CF₃)₂OH, CF₂CH₂OH, pyrazolyl, and pyrazolyl substituted with 1 substituent selected from methyl or 2-hydroxyethyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot be hydrogen.
5. The compound, stereoisomer, or salt according to any one of claims 1-4, wherein R₆ is selected from the group consisting of hydrogen, CF₃, CCH₃F₂, OCHF₂, C(CF₃)₂OH, pyrazolyl, and methyl-pyrazolyl, and whenever R₇ is hydrogen and each R₈ present is hydrogen, then R₆ cannot be hydrogen.
6. The compound, stereoisomer, or salt according to any one of claims 1-5, wherein R₆ is selected from the group consisting of CF₃, C(CF₃)₂OH, 1-methyl-1*H*-pyrazol-4-yl, and 1*H*-pyrazol-1-yl.
7. The compound, stereoisomer, or salt according to any one of claims 1-6, wherein R₆ is CF₃.
8. The compound, stereoisomer, or salt according to any one of claims 1-7, wherein R₇ is selected from the group consisting of hydrogen, halogen, hydroxyl, cyano, CH₃, OCH₃, CF₃, CHF₂, OCF₃ and OCHF₂.
9. The compound, stereoisomer, or salt according to any one of claims 1-8, wherein R₇ is hydrogen or fluoro.
10. The compound, stereoisomer, or salt according to any one of claims 1-9, wherein:
- Y₁, Y₂ and Y₃ are each CH; or
Y₁ is N and Y₂ and Y₃ are each CH; or
Y₂ is N and Y₁ and Y₃ are each CH; or
Y₃ is N and Y₁ and Y₂ are each CH; or
Y₃ is CH- and Y₁ and Y₂ are each N.
11. The compound, stereoisomer, or salt according to any one of claims 1-9, wherein:

Y_1 and Y_2 are each CH-, and Y_3 is CR_8 wherein R_8 is selected from the group consisting of hydrogen, hydroxyl, methyl, OCH_3 , fluoro, chloro, and CF_3 .

12. The compound, stereoisomer, or salt according to claim 11, wherein R_8 is hydrogen or fluoro.

5 13. The compound, stereoisomer, or salt according to any one of claims 1-10, wherein:

Y_2 is N and Y_1 and Y_3 independently are CH; or

Y_3 is N and Y_1 and Y_2 independently are each CH.

10 14. The compound, stereoisomer, or salt according to any one of claims 1-5 and 8-13, wherein R_6 is hydrogen, at least one of Y_2 or Y_3 is CR_8 , and R_8 is selected from the group consisting of CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, and C_{1-4} haloalkoxy.

15 15. The compound, stereoisomer, or salt according to claim 14, wherein R_6 is hydrogen, and Y_2 is $C(OCF_3)$.

16 16. The compound, stereoisomer, or salt according to any one of claims 1-15, wherein R_4 and R_5 independently are hydrogen or methyl, or R_4 and R_5 are taken together with the carbon atom to which they are attached to form a cyclopropyl.

17 17. The compound, stereoisomer, or salt according to any one of claims 1-16, wherein R_4 is hydrogen or methyl, and R_5 is hydrogen.

20 18. The compound, stereoisomer, or salt according to any one of claims 1-17, wherein R_4 and R_5 are each hydrogen.

19. The compound, stereoisomer, or salt according to any one of claims 1-18, wherein R_3 is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, iso-butyl, tert-butyl, CH_2CH_2F , $CH_2CH_2OCH_3$, cyclopropyl- CH_2 -, cyclopropyl, methylcyclopropyl, cyclobutyl, and fluorocyclobutyl.

25 20. The compound, stereoisomer, or salt according to any one of claims 1-19, wherein R_3 is selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, iso-butyl, tert-butyl, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, and 3-fluorocyclobutyl.

21. The compound, stereoisomer, or salt according to any one of claims 1-20, wherein R₃ is selected from the group consisting of methyl, ethyl, isopropyl, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, (1*r*,3*S*)-3-fluorocyclobutyl, and (1*s*,3*R*)-3-fluorocyclobutyl.

22. The compound, stereoisomer, or salt according to any one of claims 1-21,
5 wherein R₃ is selected from the group consisting of methyl, ethyl, and cyclopropyl.

23. The compound, stereoisomer, or salt according to any one of claims 1-22, wherein R₃ is ethyl.

24. The compound, stereoisomer, or salt according to any one of claims 1-22, wherein R₃ is cyclopropyl.

10 25. The compound, stereoisomer, or salt according to any one of claims 1-24, wherein R₂ is selected from the group consisting of hydrogen, hydroxyl, amino, CN, halogen, methyl, ethyl, CH₂OH, CH₂CH₂OH, C(=O)OC₁₋₂ alkyl, C(=O)NH₂, and unsubstituted or substituted 5 membered heteroaryl.

15 26. The compound, stereoisomer, or salt according to any one of claims 1-25, wherein R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, fluoro, methyl, CH₂OH, C(=O)OCH₃, C(=O)NH₂, oxadiazolyl, and triazolyl.

20 27. The compound, stereoisomer, or salt according to any one of claims 1-26, wherein R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, methyl, CH₂OH, C(=O)OCH₃, C(=O)NH₂, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-1,2,4-triazol-3-yl, and 1*H*-1,2,3-triazol-5-yl.

28. The compound, stereoisomer, or salt according to any one of claims 1-27, wherein R₂ is selected from the group consisting of hydrogen, CN, methyl, CH₂OH, and hydroxyl.

25 29. The compound, stereoisomer, or salt according to any one of claims 1-28, wherein R₂ is hydrogen or hydroxyl.

30. The compound, stereoisomer, or salt according to any one of claims 1-29, wherein R₂ is hydrogen.

31. The compound, stereoisomer, or salt according to any one of claims 1-29, wherein R_2 is hydroxyl.

32. The compound, stereoisomer, or salt according to any one of claims 1-31, wherein R_{1a} is selected from the group consisting of hydrogen, hydroxyl, fluoro, and CF_3 , and
5 R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl.

33. The compound, stereoisomer, or salt according to any one of claims 1-32, wherein R_{1a} is selected from the group consisting of hydroxyl, fluoro, and $-CF_3$, and R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl.

34. The compound, stereoisomer, or salt according to any one of claims 1-33,
10 wherein R_{1a} is hydroxyl or fluoro.

35. The compound, stereoisomer, or salt according to any one of claims 1-34, wherein R_{1a} is hydroxyl.

36. The compound, stereoisomer, or salt according to any one of claims 1-35, wherein R_{1b} is hydrogen.

37. The compound, stereoisomer, or salt according to any one of claims 1-35
15 wherein R_{1b} is methyl.

38. The compound, stereoisomer, or salt according to any one of claims 1-37, wherein at least one of R_{1a} , R_{1b} , and R_2 is not hydrogen.

39. The compound, stereoisomer, or salt according to claims 1-38, wherein R_{1a} is
20 selected from the group consisting of hydrogen, hydroxyl, and fluoro; R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl; and R_2 is selected from the group consisting of hydrogen, hydroxyl, methyl, CN, CH_2OH , and CH_2CH_2OH .

40. The compound, stereoisomer, or salt according to claim 39, wherein R_{1a} is
25 selected from the group consisting of hydroxyl and hydrogen; R_{1b} is hydrogen; and R_2 is selected from the group consisting of hydrogen, hydroxyl, CH_2OH , and CH_2CH_2OH , provided either R_{1a} is hydroxyl or R_2 is selected from the group consisting of hydroxyl, CH_2OH , and CH_2CH_2OH .

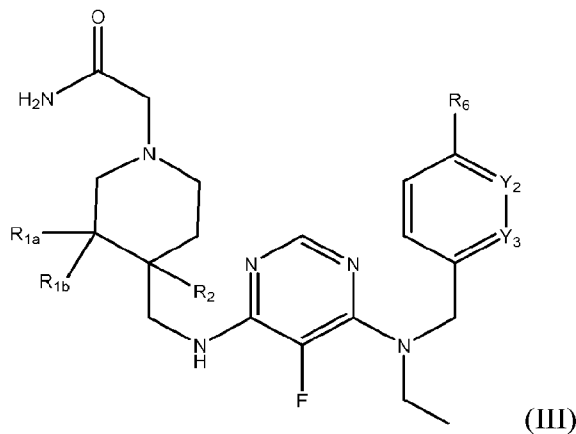
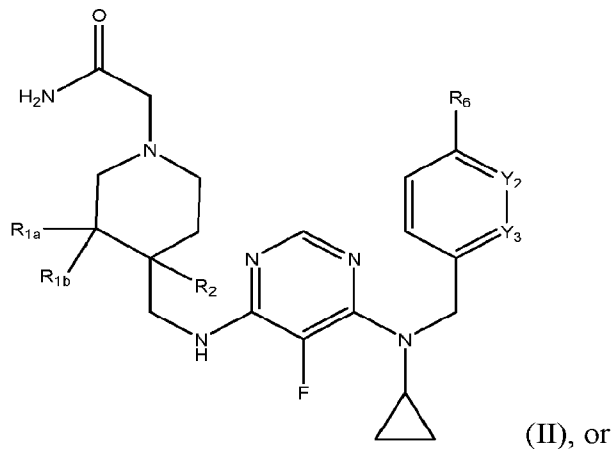
41. The compound, stereoisomer, or salt according to claims 1-40, wherein R_{0a} is selected from the group consisting of hydrogen, methyl, CH_2OH , CH_2CH_2OH , CH_2F , and CHF_2 ; and R_{0b} is selected from the group consisting of hydrogen, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, and C_{1-4} haloalkyl.

5 42. The compound, stereoisomer, or salt according to any one of claims 1-41, wherein R_{0a} is selected from the group consisting of hydrogen, methyl, CH_2OH , and CH_2CH_2OH .

43. The compound, stereoisomer, or salt according to claim 42, wherein R_{0a} is hydrogen.

10 44. The compound, stereoisomer, or salt according to claim 42 or claim 43, wherein R_{0b} is hydrogen.

45. The compound, stereoisomer, or salt according to claim 1, having a structure of Formula (II) or Formula (III):



wherein:

R_{1a} is fluoro or hydroxyl;

R_{1b} is hydrogen or fluoro;

R₂ is hydrogen or hydroxyl;

5 R₆ is CF₃;

Y₂ and Y₃ are independently N or CR₈; and

R₈ is hydrogen or fluoro.

46. The compound, stereoisomer, or salt according to claim 45, wherein Y₂ and Y₃ are each CH, or Y₂ is CH and Y₃ is CF.

10 47. The compound, stereoisomer, or salt according to claim 45 or 46, wherein R_{1a} is hydroxyl and R_{1b} is hydrogen.

48. The compound, stereoisomer, or salt according to any one of claims 45-47 wherein R₂ is hydrogen.

15 49. The compound, stereoisomer, or salt according to any one of claims 45-47 wherein R₂ is hydroxyl.

50. The compound, stereoisomer, or salt according to claim 1, wherein:

R_{0a} is selected from the group consisting of hydrogen, methyl, CH₂OH, and CH₂CH₂OH;

R_{0b} is selected from the group consisting of hydrogen and methyl;

20 R_{1a} is selected from the group consisting of hydrogen, hydroxyl, fluoro, and CF₃;

R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl;

25 R₂ is selected from the group consisting of hydrogen, hydroxyl, amino, CN, fluoro, methyl, CH₂-OH, C(=O)-NH₂, C(=O)O-CH₃, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-imidazol-2-yl, 1*H*-1,2,3-triazol-5-yl, 1*H*-1,2,4-triazol-3-yl, and 4-methyl-4*H*-1,2,4-triazol-3-yl;

R is selected from the group consisting of hydrogen and CH₂OH;

R₃ is selected from the group consisting of methyl, ethyl, isopropyl, isobutyl, CH₂CH₂F, CH₂CH₂OCH₃, cyclopropyl-CH₂-, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, and 3-fluorocyclobutyl;

30 R₄ is hydrogen or methyl;

R₅ is hydrogen;

R₆ is selected from the group consisting of hydrogen, chloro, CN, CF₃, CHF₂, CCH₃F₂, OCH₃, OCF₃, OCH₂F, OCHF₂, C(CF₃)₂OH, CF₂CH₂OH, 1*H*-pyrazol-1-yl, 1-methyl-1*H*-pyrazol-4-yl, and 1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl;

R₇ is hydrogen or chloro;

5 Y₁, Y₂ and Y₃ are each CH; or

Y₁ is CH, Y₂ is CH, and Y₃ is selected from the group consisting of N, C(F), C(OCH₃), C(CH₃), C(Cl), and C(CF₃); or

Y₁ is CH, Y₂ is selected from the group consisting of N, C(CN), C(1*H*-1,2,4-triazol-1-yl), C(OCF₃), C(OCH₃), C(F), C(OCHF₂), and C(Cl), and Y₃ is CH; or

10 Y₁ is CH, Y₂ is C(Cl) and Y₃ is C(Cl); or

Y₁ is C(CH₃), Y₂ is CH and Y₃ is C(CH₃); or

Y₁ is C(CH₃), Y₂ is C(CH₃) and Y₃ is CH; or

Y₁ is C(CF₃), Y₂ is C(CF₃) and Y₃ is CH; or

Y₁ is C(Cl), Y₂ is C(Cl) and Y₃ is CH; or

15 Y₁ is N, Y₂ is N and Y₃ is CH.

51. The compound, stereoisomer, or salt according to claim 1 or 50, wherein:

R_{0a} is selected from the group consisting of hydrogen, methyl, CH₂OH, and CH₂CH₂OH;

R_{0b} is hydrogen or methyl;

20 R_{1a} is selected from the group consisting of hydrogen, hydroxyl, CF₃, and fluoro;

R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl;

R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, CH₂OH, methyl, CO₂Me, CONH₂, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, 1*H*-1,2,3-triazol-5-yl, and 1*H*-1,2,4-triazol-3-yl;

25 R is hydrogen;

R₃ is selected from the group consisting of methyl, ethyl, isopropyl, cyclopropyl-CH₂-, cyclopropyl, 1-methylcyclopropyl, cyclobutyl, (1*r*,3*S*)-3-fluorocyclobutyl, and (1*s*,3*R*)-3-fluorocyclobutyl;

R₄ is hydrogen;

30 R₅ is hydrogen;

R₆ is selected from the group consisting of hydrogen, CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl;

R₇ is hydrogen;

Y₁, Y₂ and Y₃ are each CH; or

Y₁ is CH, Y₂ is CH and Y₃ is C(F); or

Y₁ is CH, Y₂ is C(OCF₃) or C(OCH₃), and Y₃ is CH; or

Y₁ is CH, Y₂ is CH, and Y₃ is N; or

5 Y₁ is CH, Y₂ is N, and Y₃ is CH; or

Y₁ is N, Y₂ is N, and Y₃ is CH.

52. The compound, stereoisomer, or salt according to any one of claims 1 and 50-51, wherein:

R_{0a} is selected from the group consisting of hydrogen, methyl, and CH₂OH;

10 R_{0b} is hydrogen or methyl;

R_{1a} is selected from the group consisting of hydrogen, hydroxyl, and fluoro;

R_{1b} is selected from the group consisting of hydrogen, fluoro, and methyl;

R₂ is selected from the group consisting of hydrogen, hydroxyl, CN, CH₂OH, methyl, 1,2,4-oxadiazol-3-yl, 1,3,4-oxadiazol-2-yl, and 1*H*-1,2,3-triazol-5-yl;

15 R is hydrogen;

R₃ is ethyl or cyclopropyl;

R₄ is hydrogen;

R₅ is hydrogen;

20 R₆ is selected from the group consisting of hydrogen, CF₃, CF₂CH₃, OCHF₂, C(CF₃)₂OH, 1*H*-pyrazol-1-yl, and 1-methyl-1*H*-pyrazol-4-yl;

R₇ is hydrogen;

Y₁, Y₂ and Y₃ are each CH; or

Y₁ is CH, Y₂ is CH, and Y₃ is C(F); or

Y₁ is CH, Y₂ is C(OCF₃), and Y₃ is CH.

25 53. The compound, stereoisomer, or salt according to claim 1, selected from the group consisting of:

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 *rel*-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

rel-(*R*)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

5 *rel*-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,

10 methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

15 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

40 *rel*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

40 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

15 2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-((3-(1*H*-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,

2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

35 2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

rac-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

40 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

5 2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide,

25 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

rel-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

30 *rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,

35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,

40 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 *rac*-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-Pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide,
- 25 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 40 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

- rel-2-((3R,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- 5 *rel-2-((3R,4S)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- rel-2-((3R,4R)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- 10 *rel-2-((3R,4S)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- rel-2-((3R,4R)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- 15 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- 20 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,*
- 2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,*
- 25 *rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- rac-2-((3R,4R)-4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- rac-2-((3R,4R)-4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- 30 *rac-2-((3R,4R)-4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(1-(*o*-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- 35 *rac-2-((3R,4R)-4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- rac-2-((3R,4R)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- rac-2-((3R,4R)-4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*
- 40 *rac-2-((3R,4R)-4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,*

rac-2-((3*R*,4*R*)-4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5 *rac*-2-((3*R*,4*R*)-4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 *rac*-2-((3*R*,4*R*)-4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 *rac*-2-((3*R*,4*R*)-4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, and

rac-2-((3*R*,4*R*)-4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

30 54. The compound, stereoisomer, or salt according to claim 1, selected from the group consisting of:

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

35 2-(4-(((6-(cyclopropyl(2-methyl-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,
- methyl(1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,
- 10 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclobutyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(cyclobutyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(difluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40

- 2-(4-(((6-(ethyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(((5-fluoro-6-((2-fluoroethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 2-(4-(((5-fluoro-6-((3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(1-(5-(trifluoromethyl)pyridin-2-yl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(1-(4-(trifluoromethyl)phenyl)ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((3-cyanobenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-((3-(1*H*-1,2,4-triazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,
- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 35 2-(4-(((6-((4-chloro-2,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2,5-dimethylbenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 40 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((4-chloro-3,5-dimethylbenzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 10 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 2-(4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)-3-hydroxypropanamide,
- 25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 30 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 35 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(ethyl(4-(1-(2-hydroxyethyl)-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 2-(4-(((6-((4-cyanobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(1,1-difluoro-2-hydroxyethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 15 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(4-methyl-4*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-imidazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 25 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(1-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)-2-hydroxyethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 35 2-(4-(((6-((3,5-bis(trifluoromethyl)benzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 10 2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-Amino-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(methyl(2-methylbenzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-((2,6-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((2,3-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 2-(4-(((6-((2,6-dichlorobenzyl)(ethyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-(methyl(1-(*o*-tolyl)ethyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((1-(2-chlorophenyl)ethyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((3-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 2-(4-(((5-fluoro-6-(isobutyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((cyclopropylmethyl)(2-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-cyanobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-((4-chloro-3-fluorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 40 2-(4-(((6-((4-(difluoromethoxy)-3-methoxybenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((4-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((5-fluoro-6-((2-methoxyethyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

5 2-(4-(((6-((2,4-dichlorobenzyl)(isobutyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((4-cyanobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 2-(4-(((5-fluoro-6-(((6-methoxypyridin-3-yl)methyl)(methyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((3-(difluoromethoxy)benzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-((3,5-dichlorobenzyl)(methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide, and

2-(4-(((6-((3-chlorobenzyl)(isopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

55. The compound, stereoisomer, or salt thereof according to claim 53, selected
20 from the group consisting of:

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-(*R*)-2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

25 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

30 *rel*-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,

methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,

35 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

40 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 10 *rel*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 20 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*r*,3*S*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-(((1*s*,3*R*)-3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 30 *rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,
- 40 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

- 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 5 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 10 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 15 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 20 *rel*-(*R*)-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- rel*-(*R*)-2-((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 25 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 35 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro
- 40 pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 5 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 10 *rac*-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 20 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 25 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 30 *rel*-2-((3*R*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and
- 40

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

56. The compound, stereoisomer, or salt thereof according to claim 54, selected from the group consisting of:

- 5 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,
10 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,
15 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-(trifluoromethyl)piperidin-1-yl)acetamide,
methyl 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxylate,
20 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
25 2-(4-(((6-(cyclobutyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclobutyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl((2-(trifluoromethyl)pyrimidin-5-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
30 2-(4-(((5-fluoro-6-(isopropyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((5-fluoro-6-(methyl(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
35 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
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- 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl((6-(1,1-difluoroethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 5 2-(4-(((5-fluoro-6-(3-fluorocyclobutyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 10 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((1-methylcyclopropyl)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)-2-fluorobenzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 1-(2-amino-2-oxoethyl)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidine-4-carboxamide,
- 20 2-(4-(((6-(cyclopropyl((6-(trifluoromethyl)pyridin-3-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl((5-(trifluoromethyl)pyridin-2-yl)methyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 30 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 35 2-(4-(((6-(cyclopropyl(3-methoxy-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((5-fluoro-6-((methyl-*d*₃)(4-(trifluoromethyl)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
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- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-4-hydroxybutanamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- 10 2-(4-(((6-(ethyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,4-triazol-3-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 25 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 35 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
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2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1H-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

5 2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2-fluoro-4-(1H-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and

10 2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

57. The compound, stereoisomer, or salt thereof according to claim 55, selected from the group consisting of:

rel-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

15 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

rel-(*R*)-2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

25 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

40 *rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-
10 fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro
15 pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- rac*-2-((3*R*,4*R*)-4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 25 *rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide
- 35 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- rel*-2-((3*R*,4*S*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 40 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*S*)-4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

5 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

rel-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,

10 *rel*-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide, and

rac-2-((3*R*,4*R*)-4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

58. The compound, stereoisomer, or salt thereof according to claim 56, selected

15 from the group consisting of:

2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-fluoropiperidin-1-yl)acetamide,

20 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,3-difluoropiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-hydroxypiperidin-1-yl)acetamide,

25 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

30 2-(4-(((6-(cyclopropyl(4-(1,1-difluoroethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(difluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

35 2-(4-cyano-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

40 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,

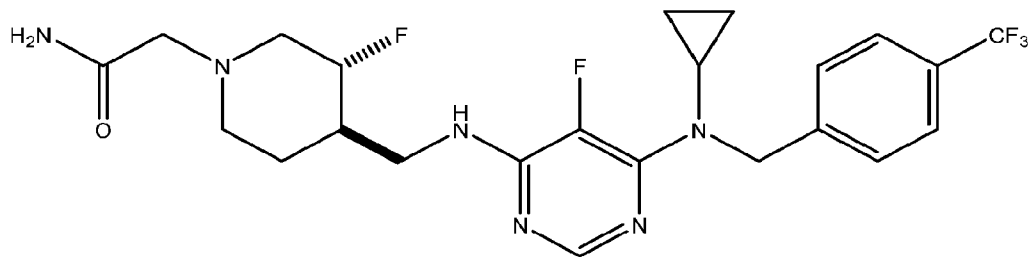
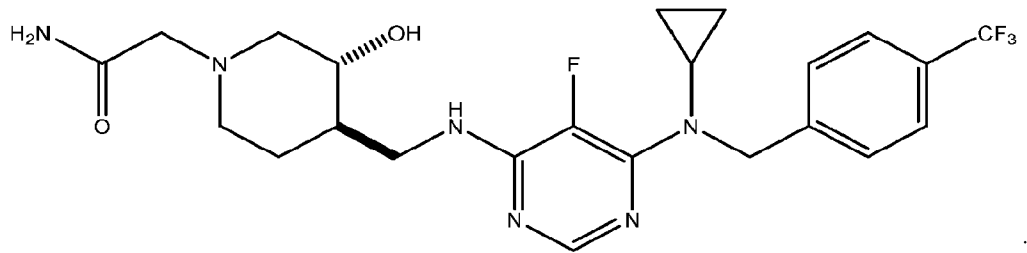
- 2-(4-(((6-(cyclopropyl(3-(trifluoromethoxy)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-methylpropanamide,
- 5 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide-2,2-*d*₂,
- 10 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(hydroxymethyl)piperidin-1-yl)-3-hydroxypropanamide,
- 2-(4-(((6-(cyclopropyl(4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 15 2-(4-(((6-(Cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoro pyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,2,4-oxadiazol-3-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1,3,4-oxadiazol-2-yl)piperidin-1-yl)acetamide,
- 20 2-(4-(((6-(Cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-4-(1*H*-1,2,3-triazol-5-yl)piperidin-1-yl)acetamide,
- 2-(4-(((6-((4-(1*H*-pyrazol-1-yl)benzyl)(cyclopropyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,
- 25 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-3-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-methylpiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxy-4-(hydroxymethyl)piperidin-1-yl)acetamide,
- 30 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 35 2-(4-(((6-(ethyl(2-fluoro-4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(ethyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 2-(4-(((6-(cyclopropyl(2-fluoro-4-(1-methyl-1*H*-pyrazol-4-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)acetamide,
- 40

2-(4-(((6-(cyclopropyl(4-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide,

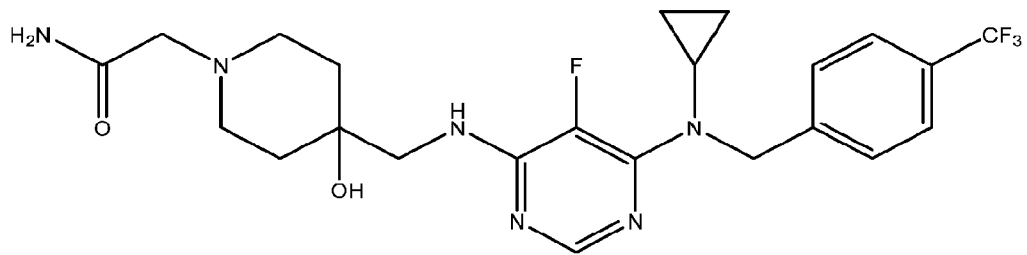
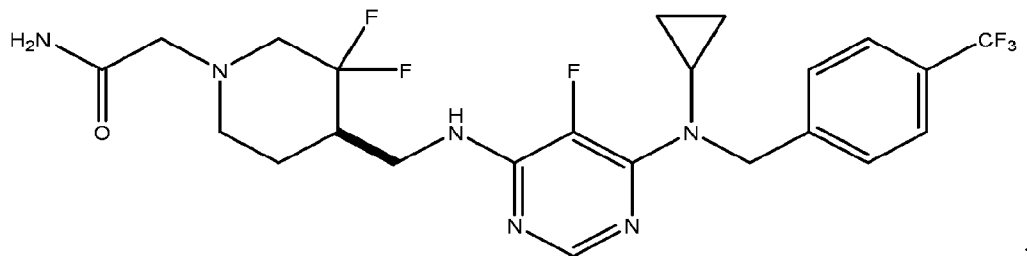
2-(4-(((6-(cyclopropyl(2-fluoro-4-(1*H*-pyrazol-1-yl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydropiperidin-1-yl)acetamide, and

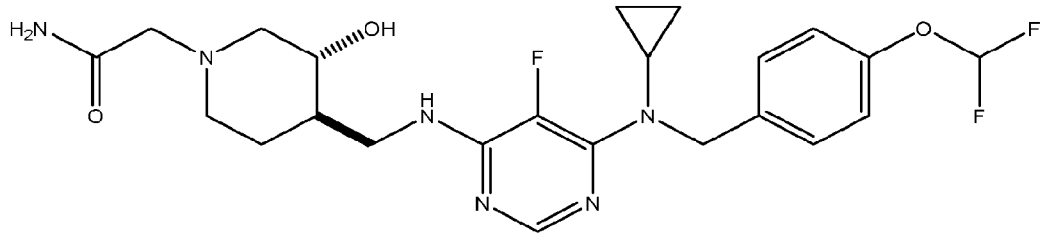
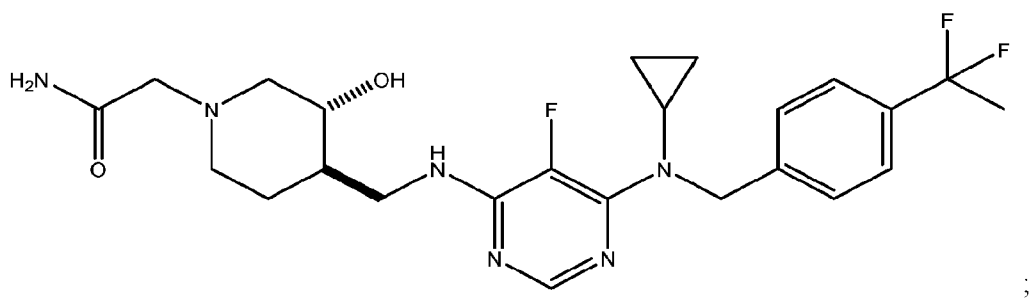
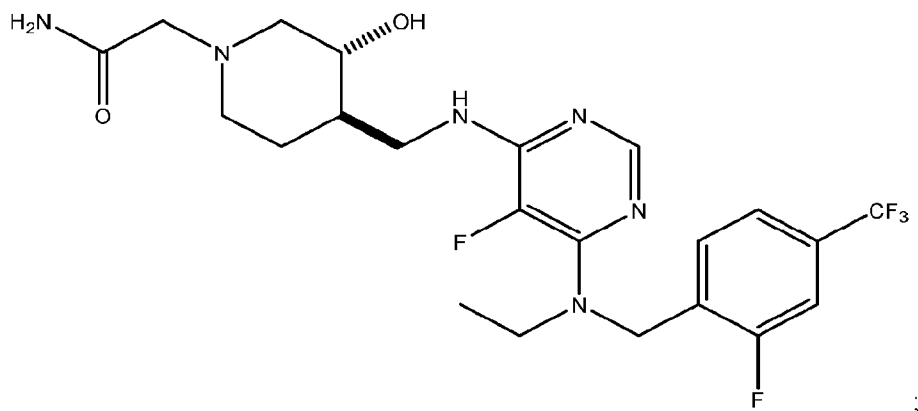
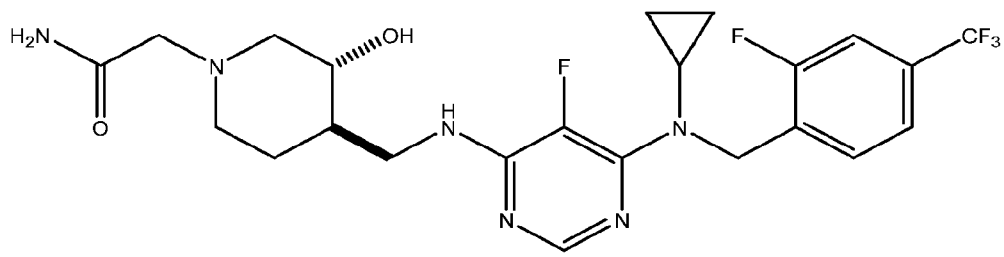
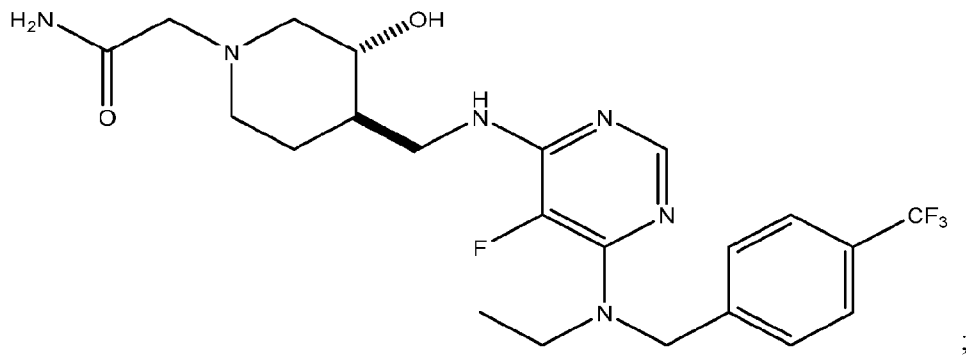
- 5 2-(4-(((5-fluoro-6-(methyl(3-(trifluoromethoxy)benzyl)amino)pyrimidin-4-yl)amino)methyl)-3-hydropiperidin-1-yl)acetamide.

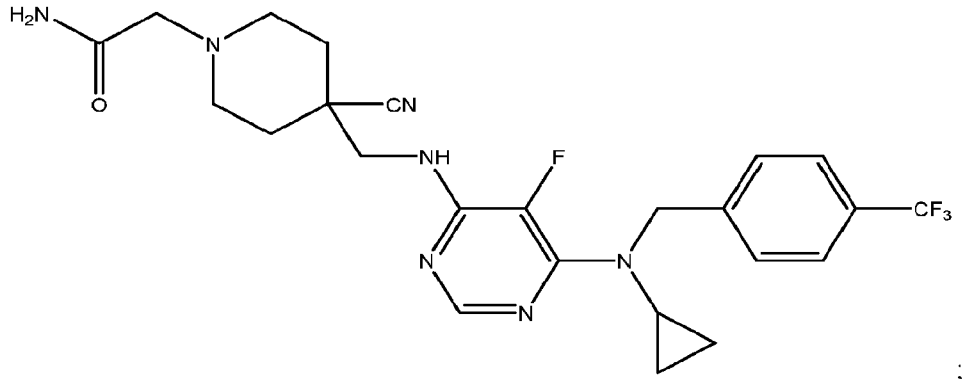
59. The compound, stereoisomer, or salt according to claim 1, having a structure selected from the group consisting of:



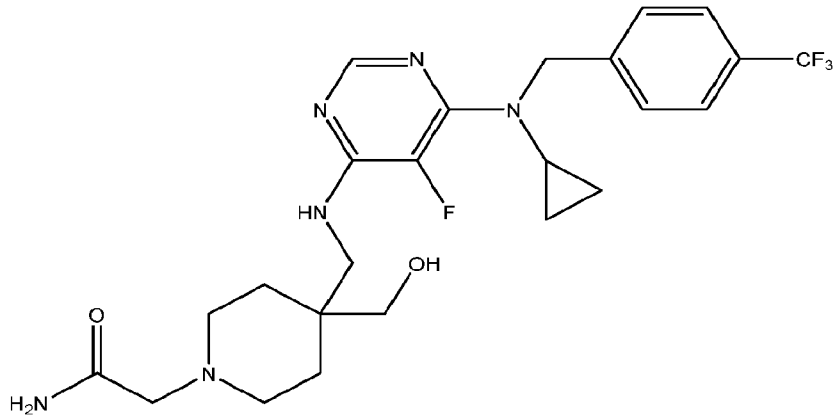
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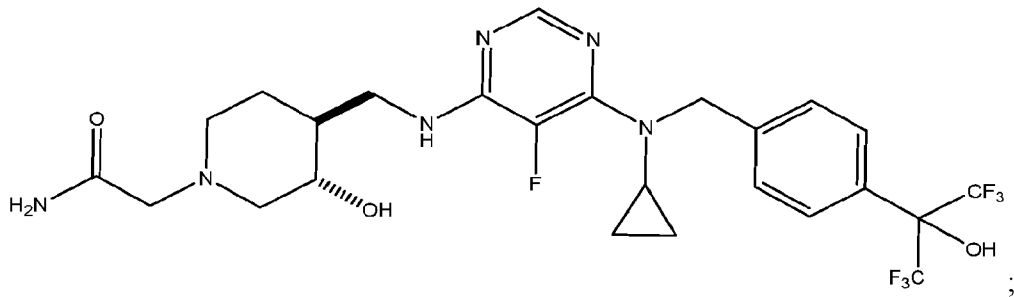




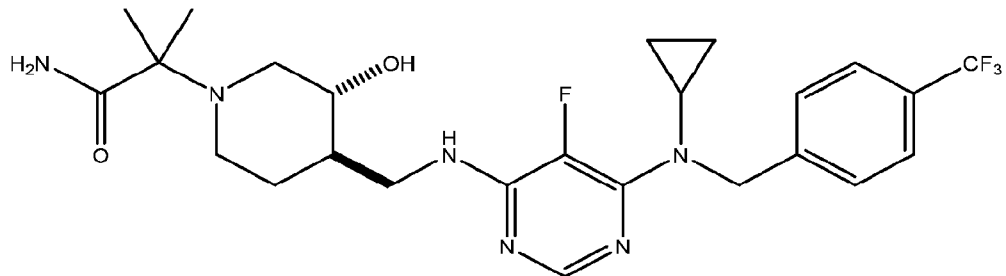
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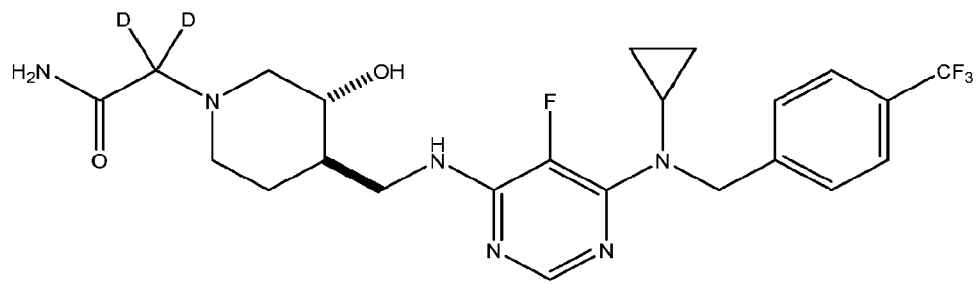
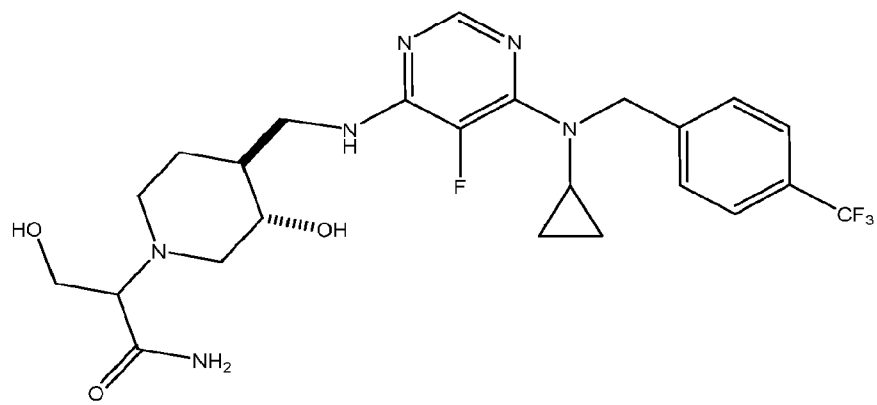
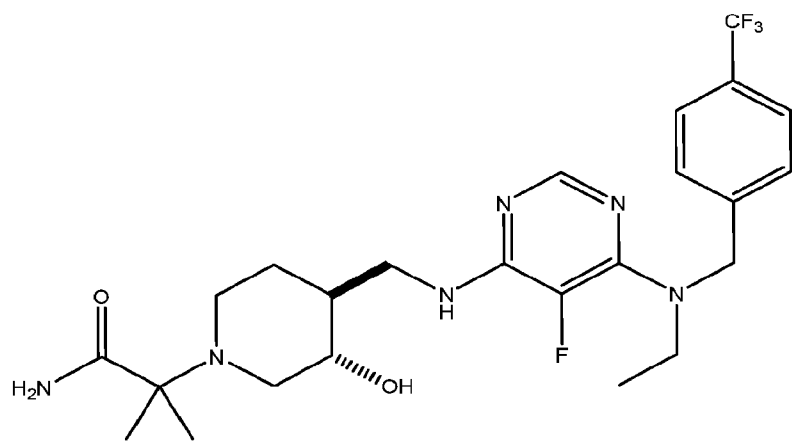
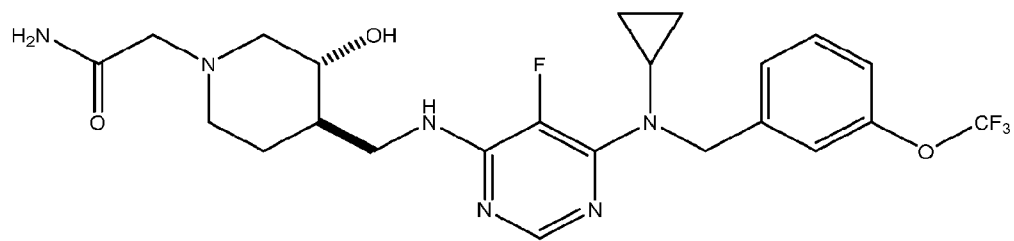
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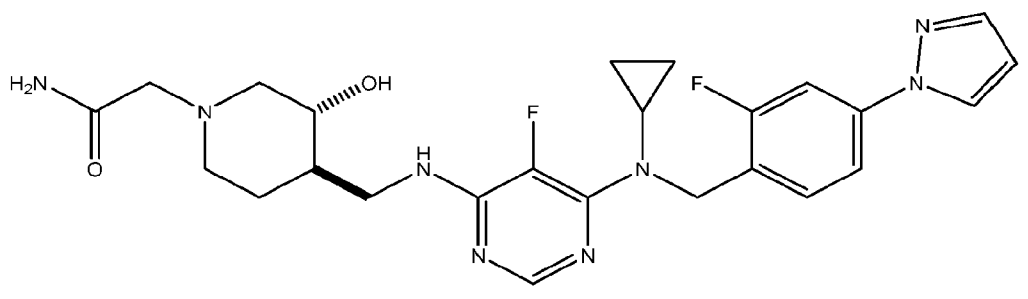
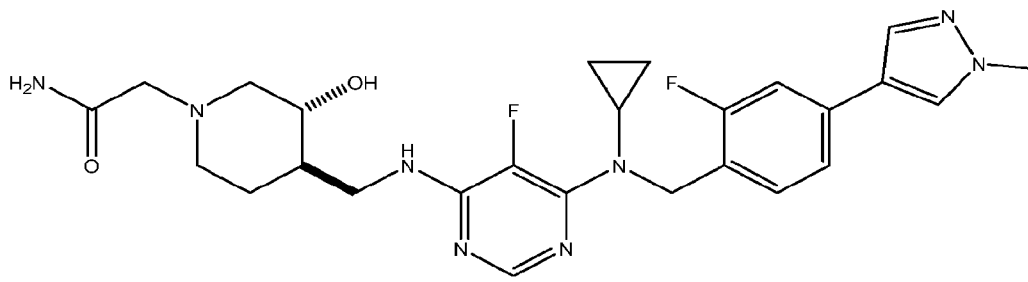
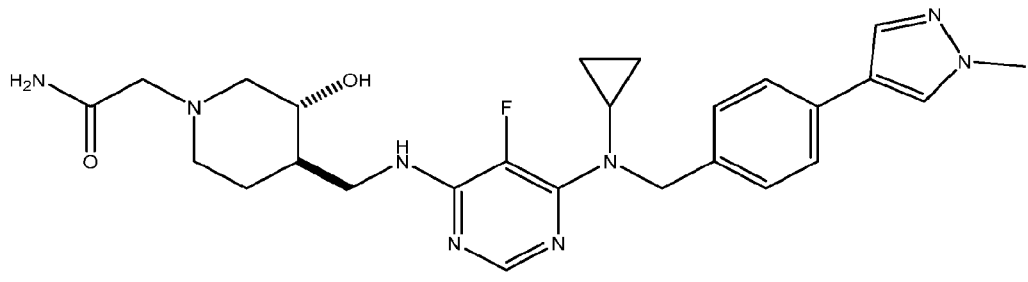
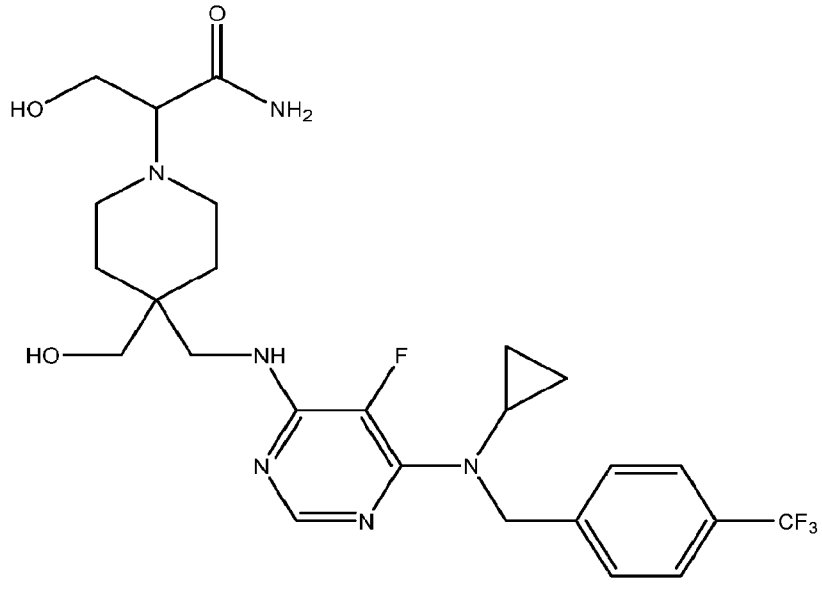


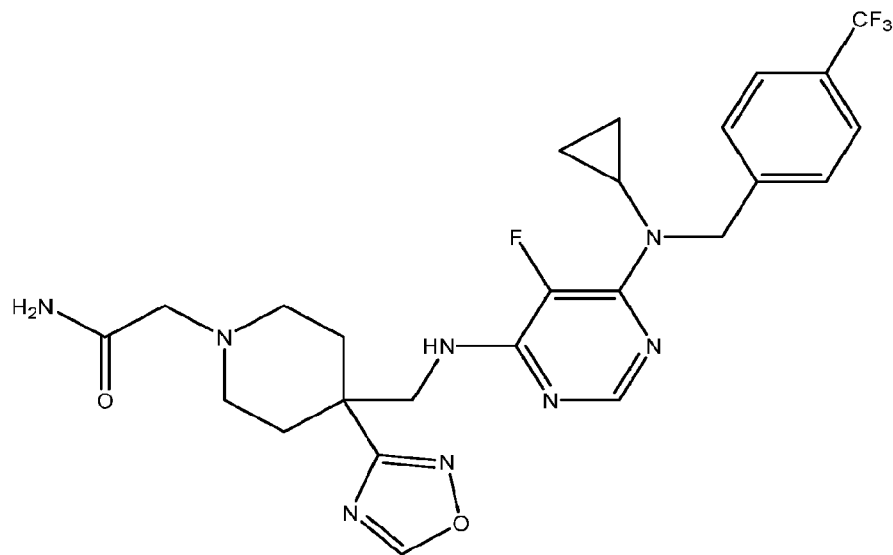
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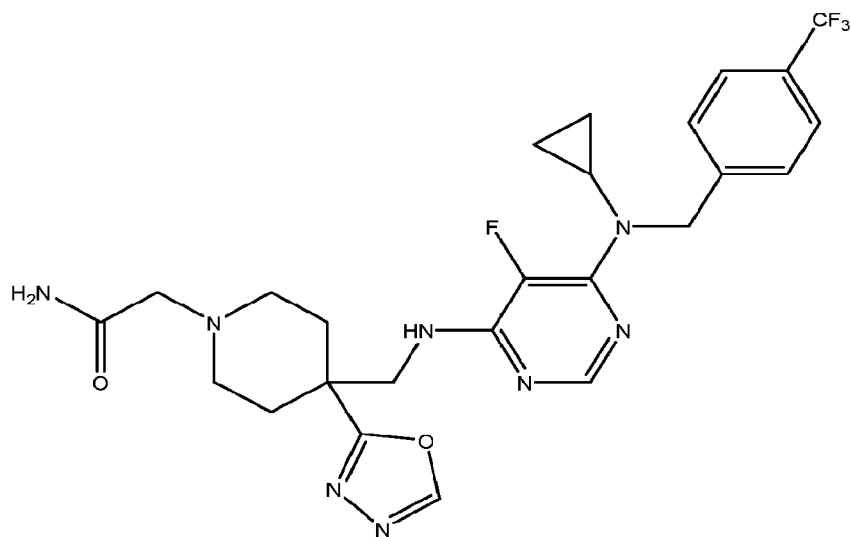
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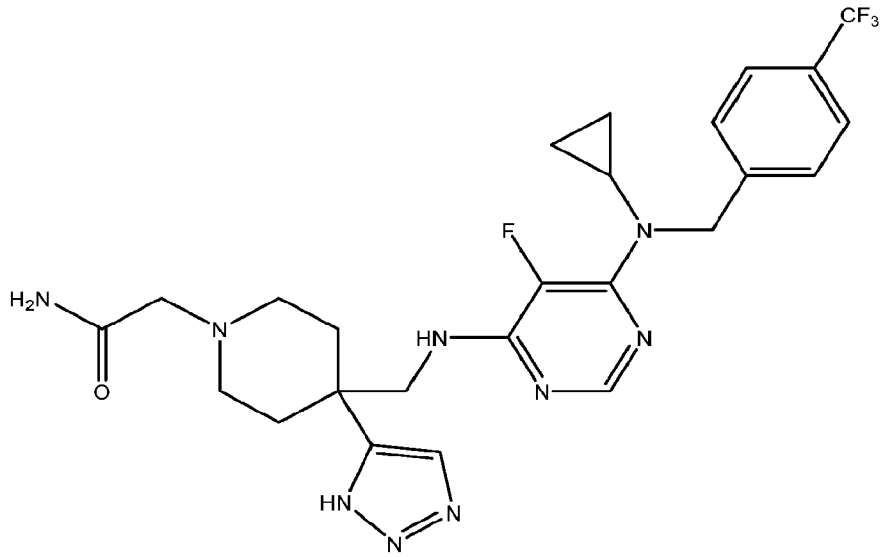




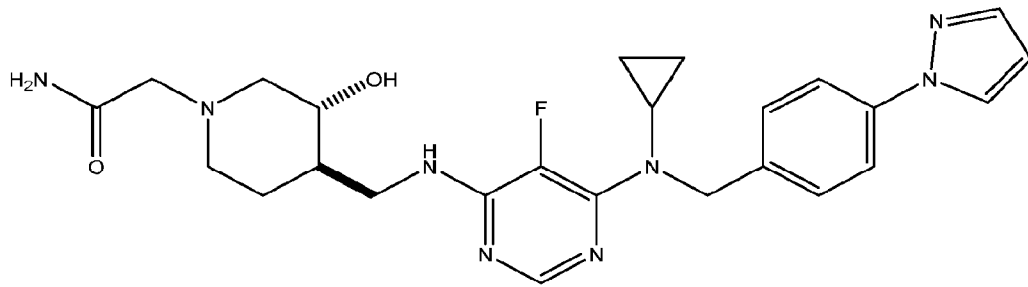
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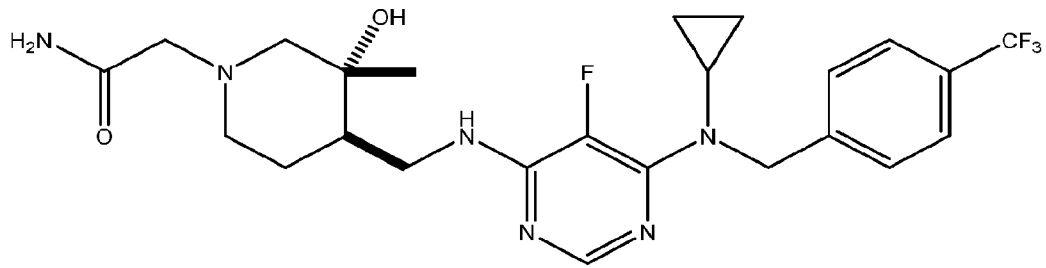
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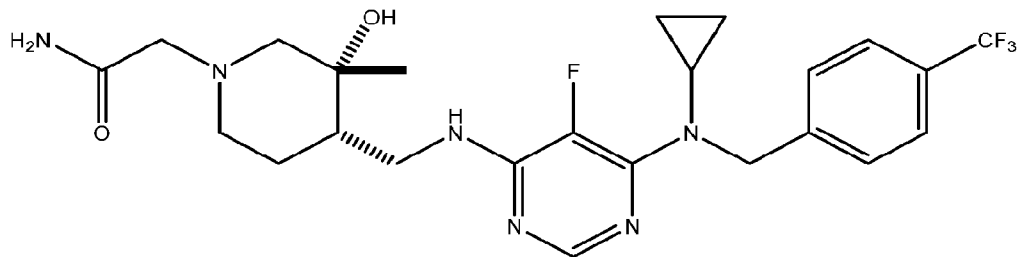
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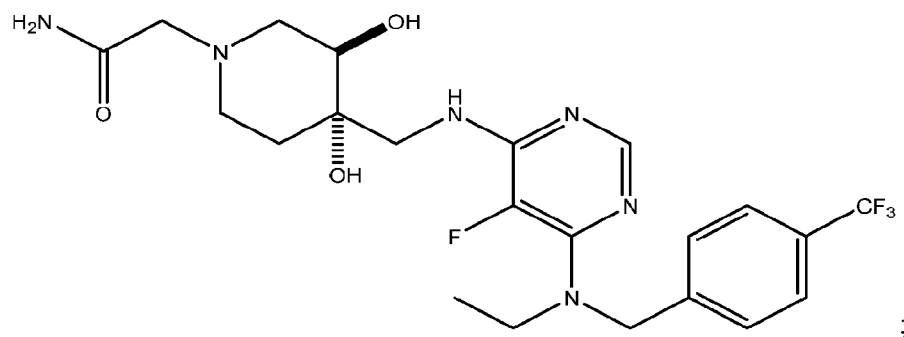
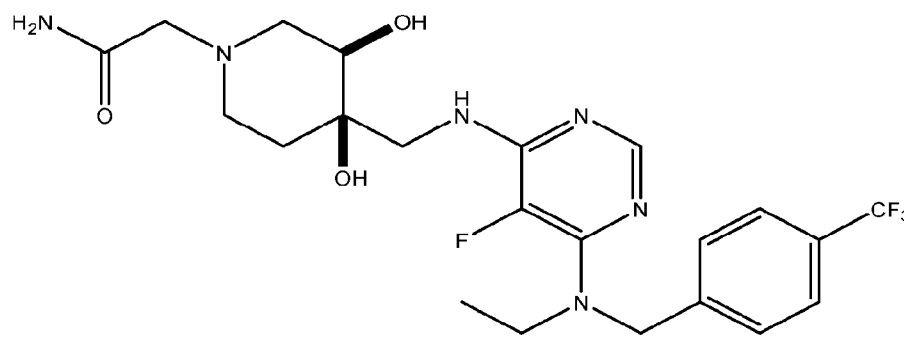
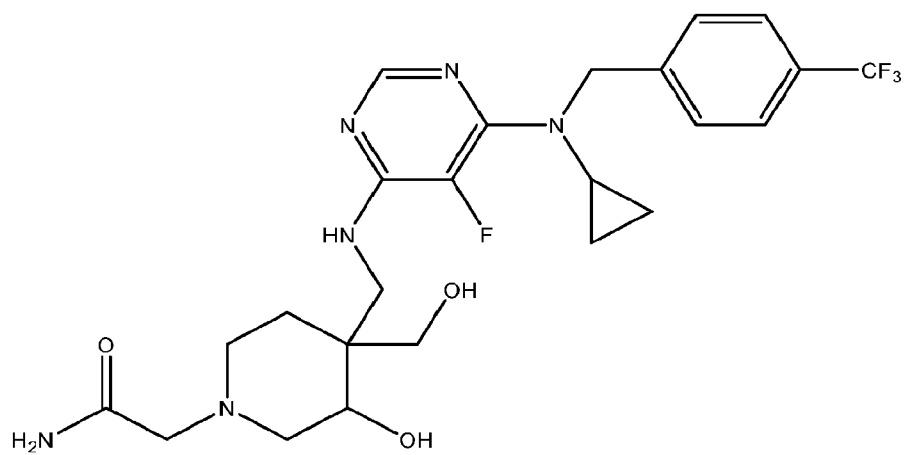
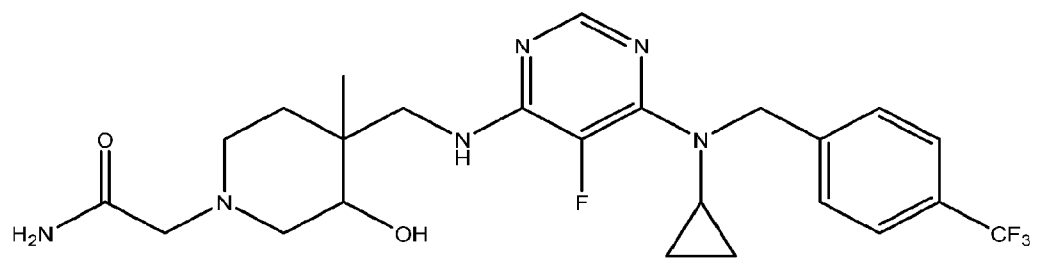
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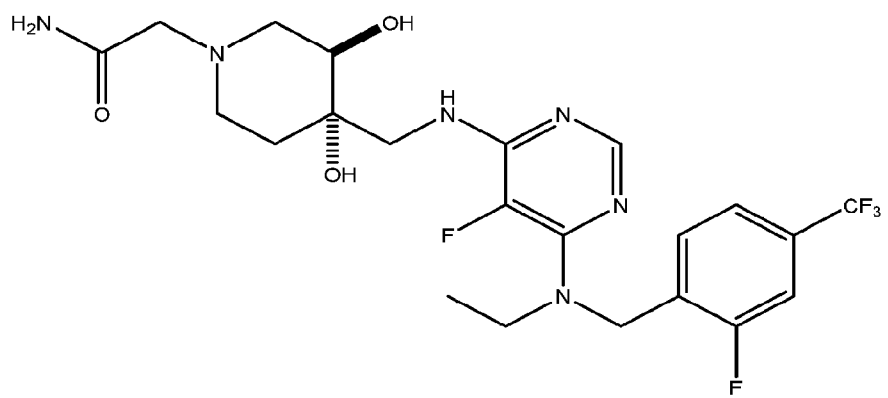
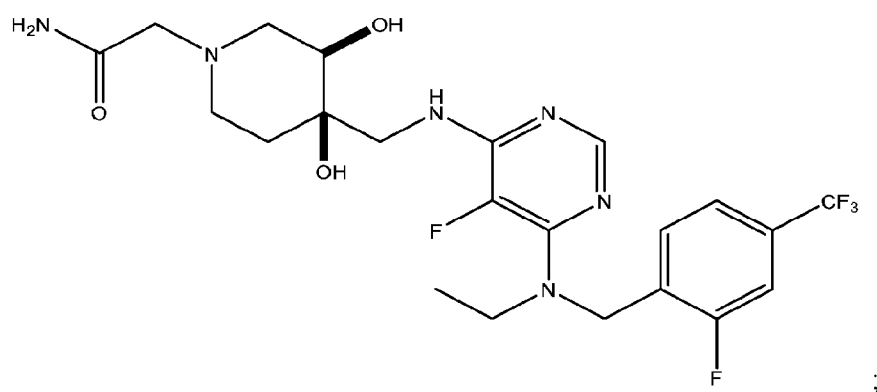
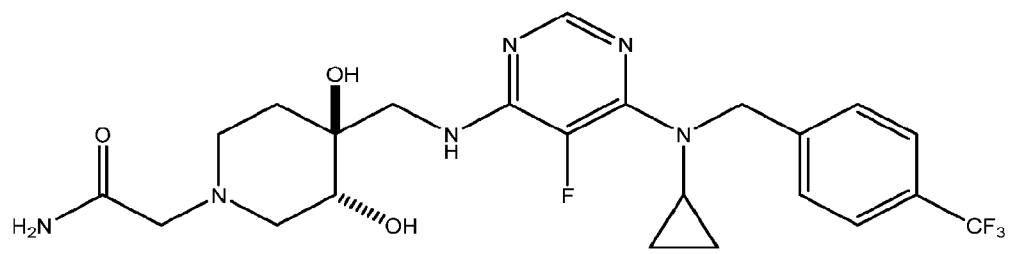
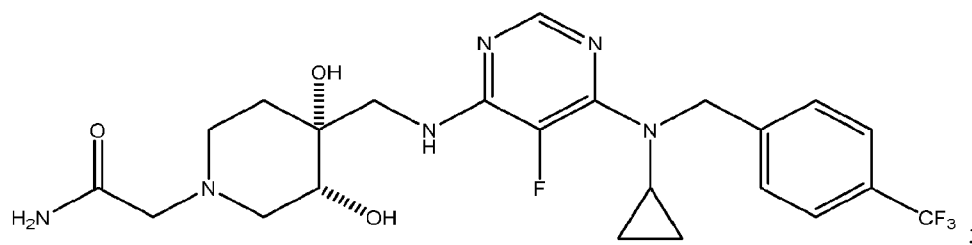


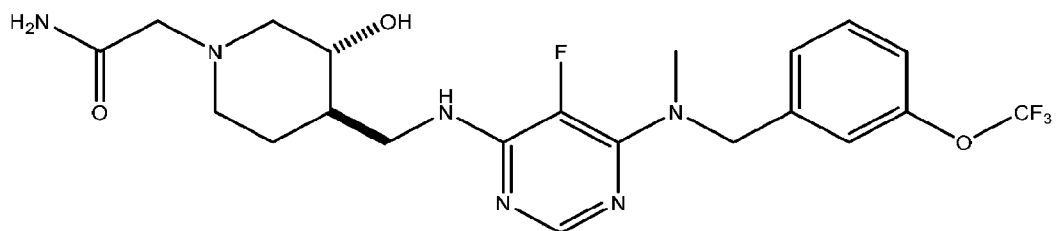
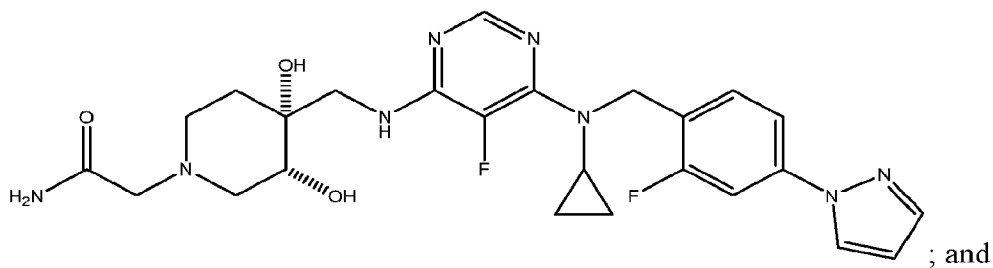
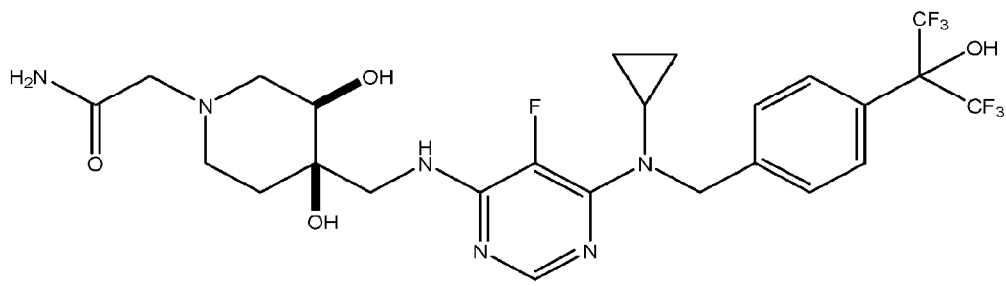
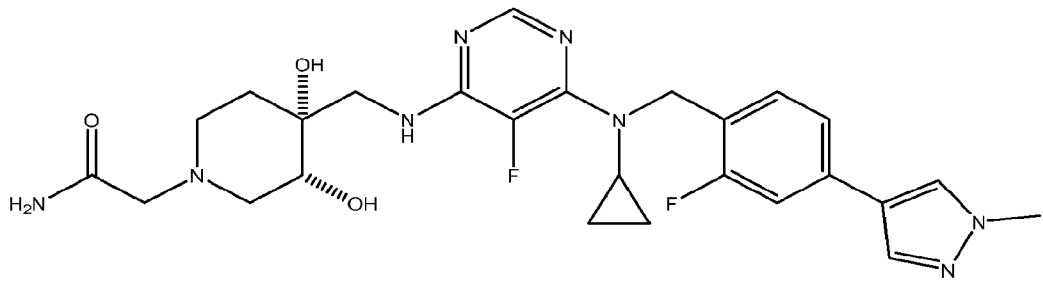
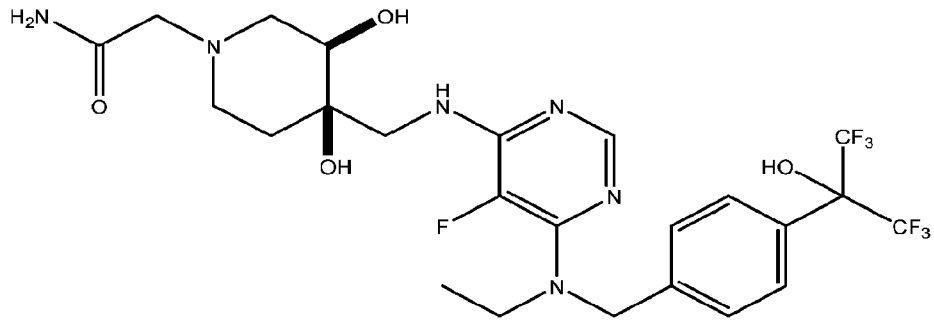
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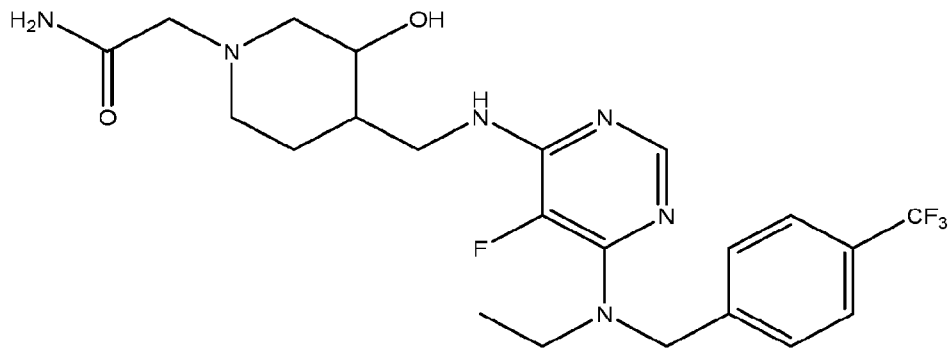
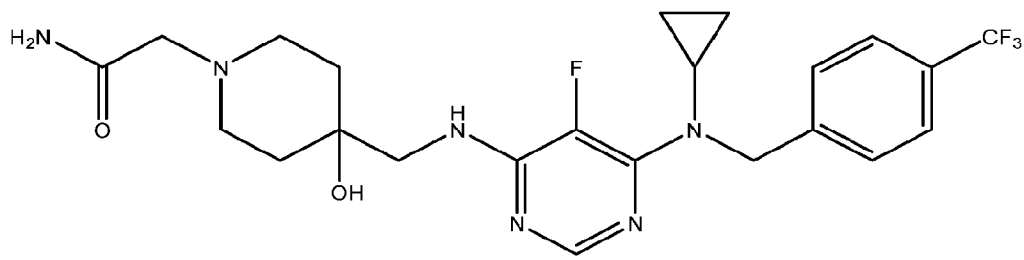
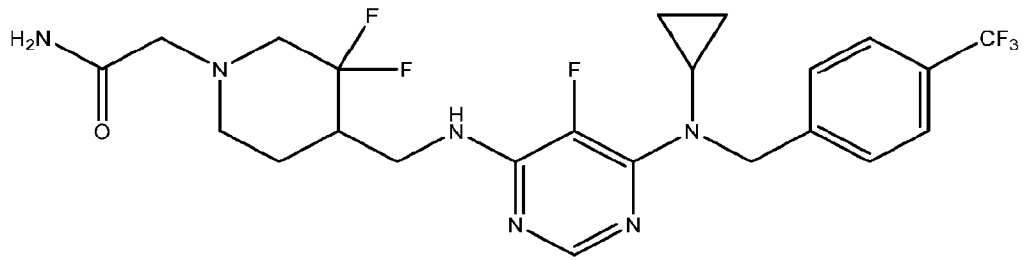
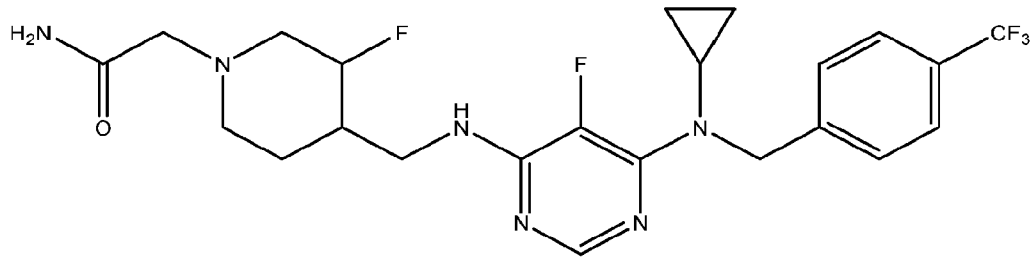
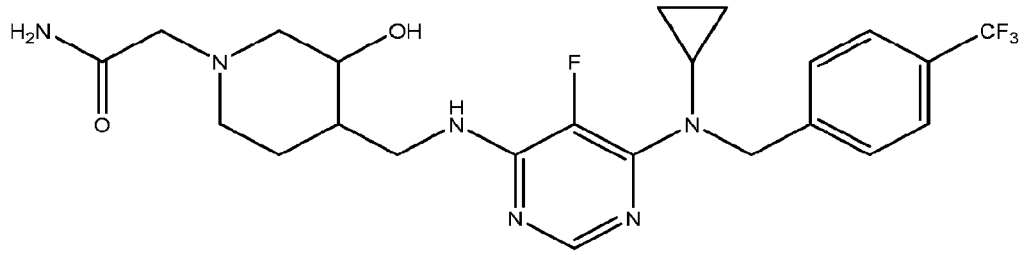




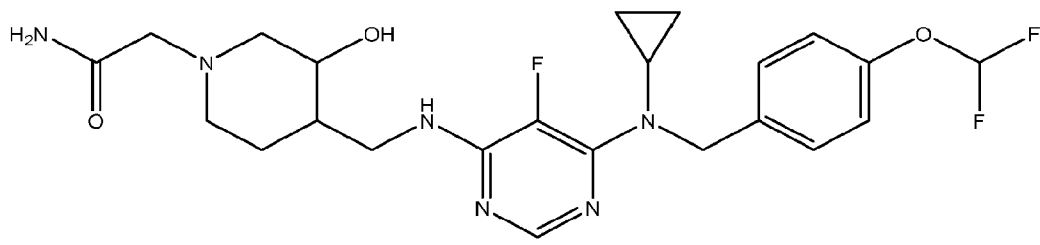
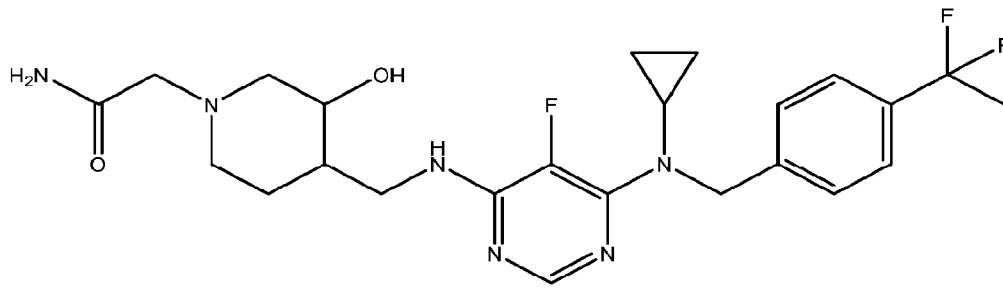
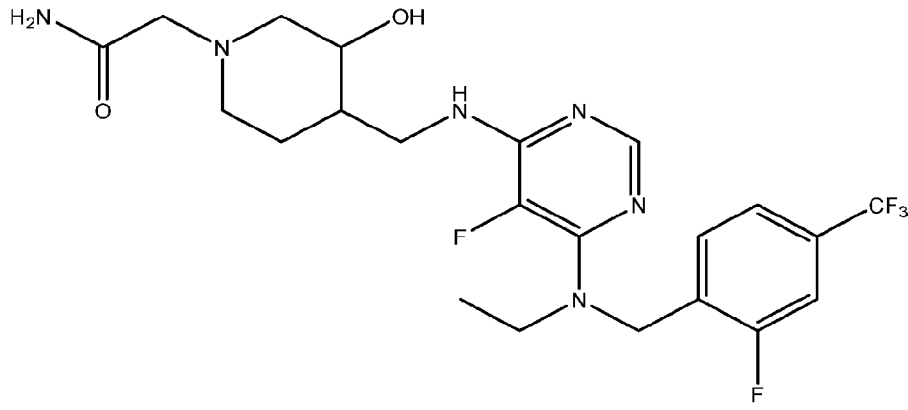
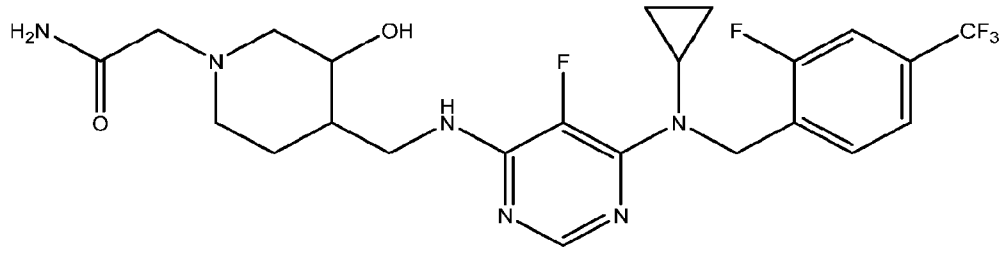
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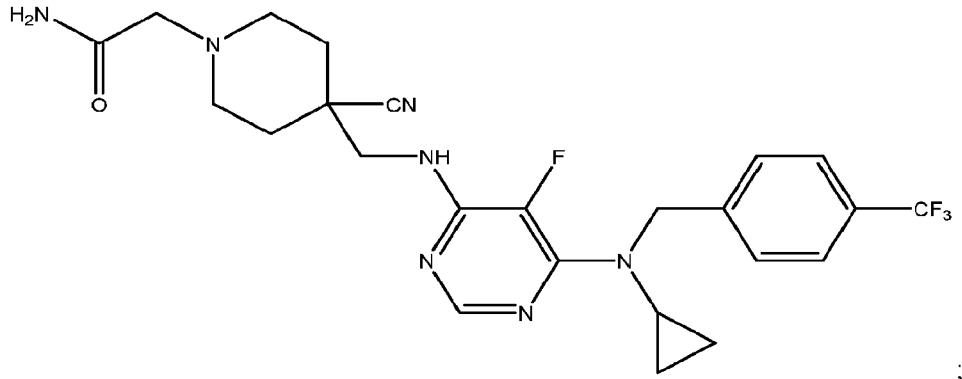
60. The compound, stereoisomer, or salt according to claim 1, having a structure selected from the group consisting of:

387

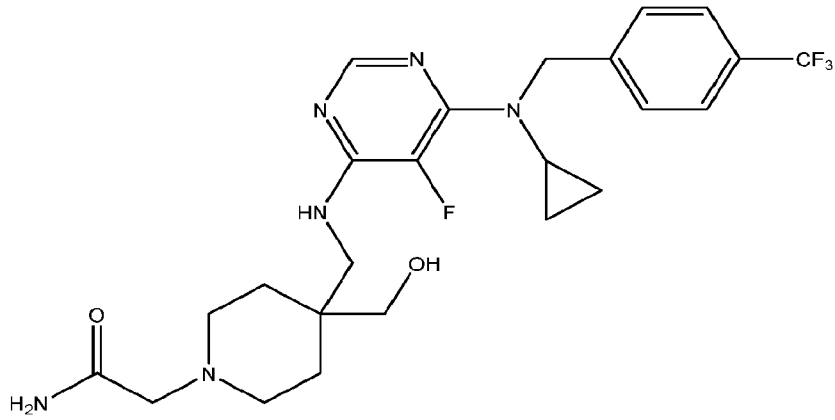


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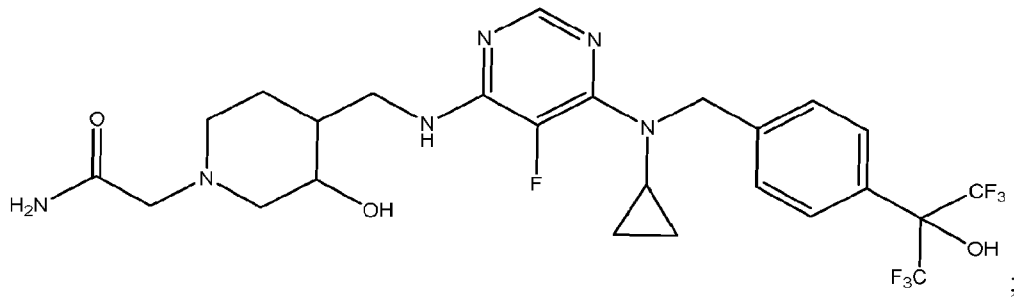




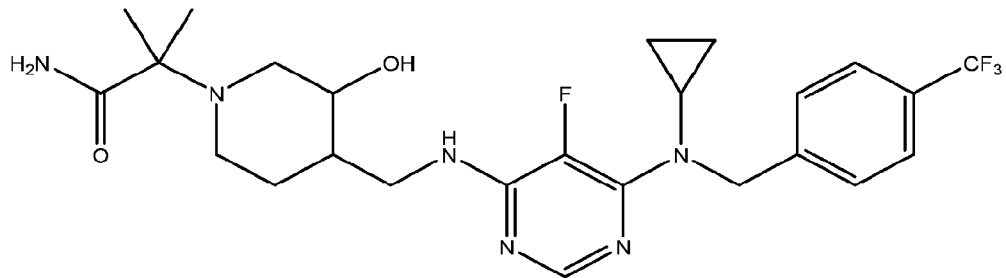
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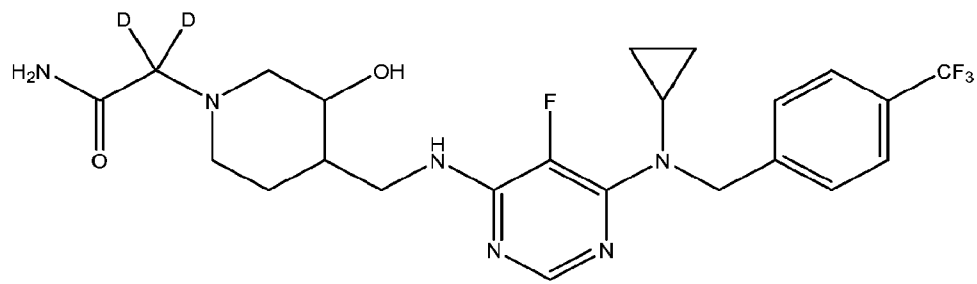
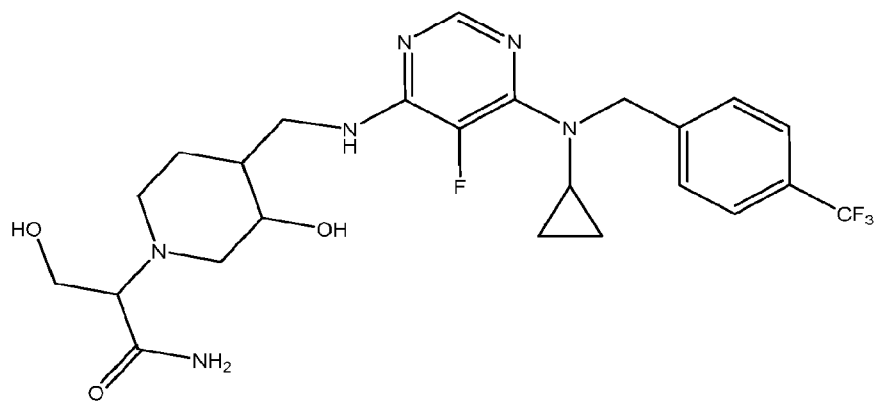
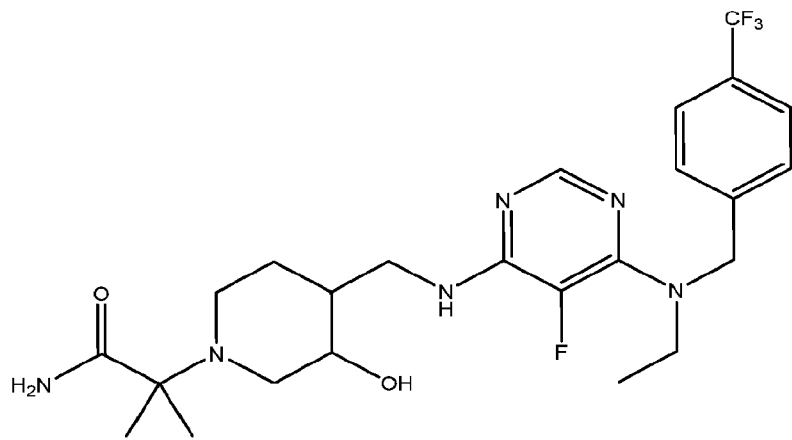
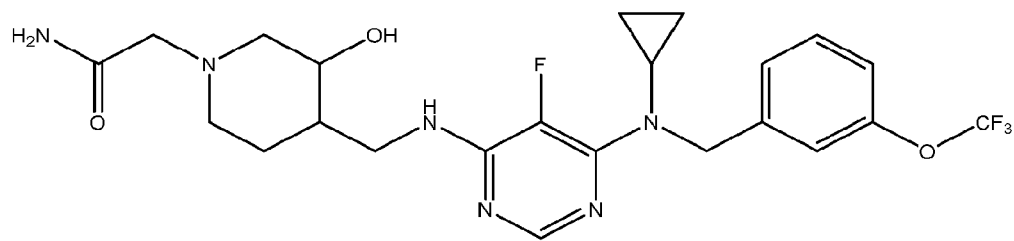
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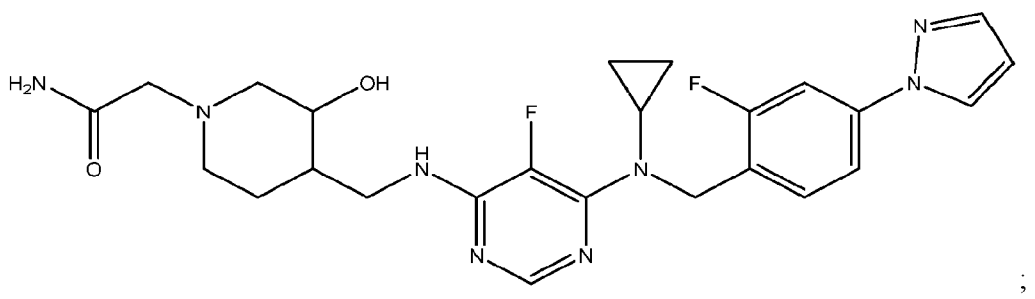
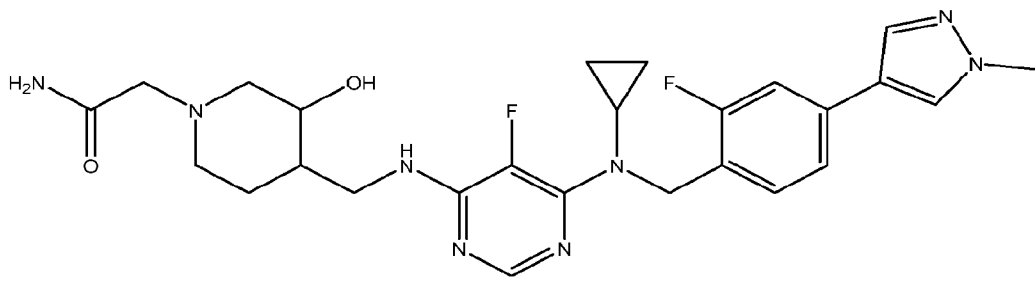
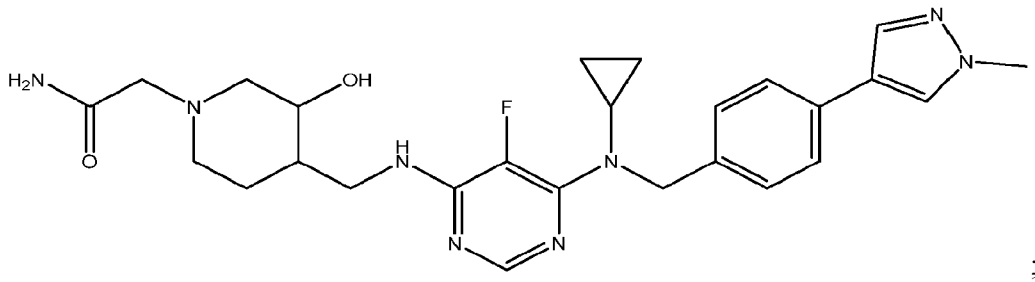
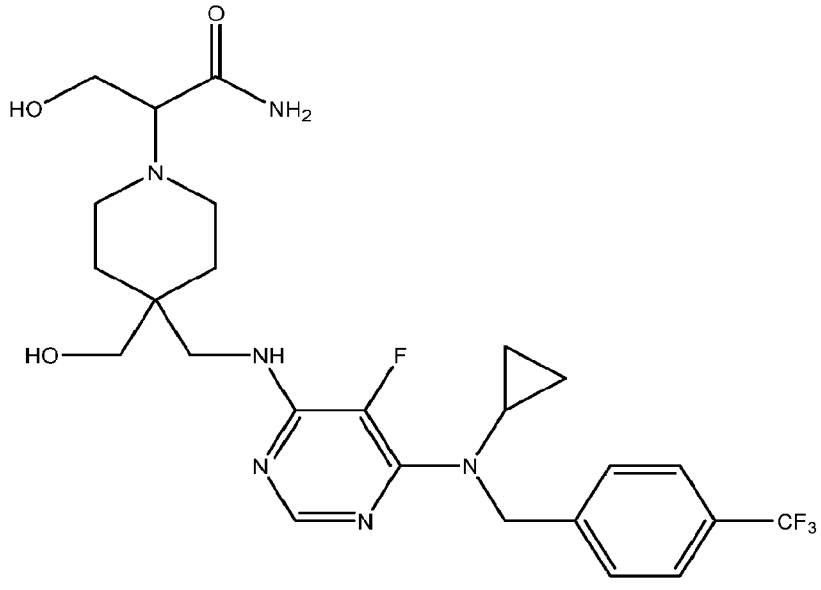


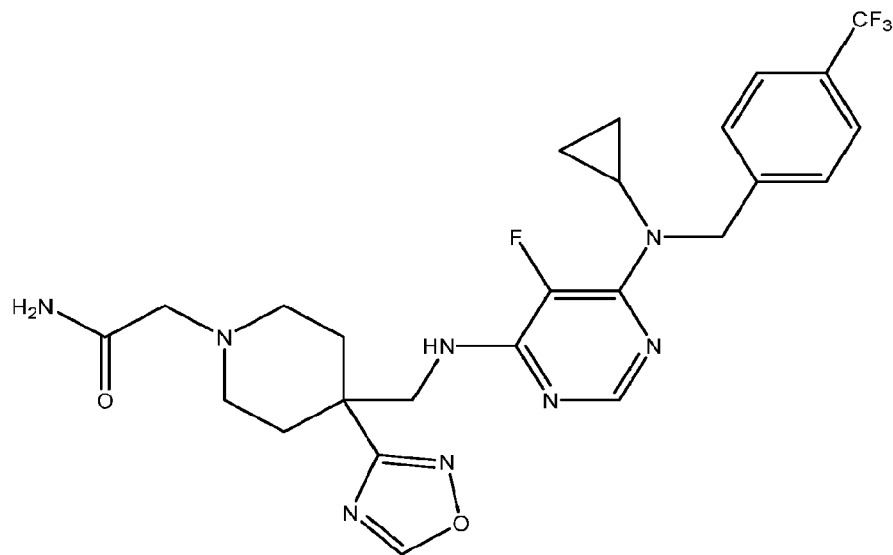
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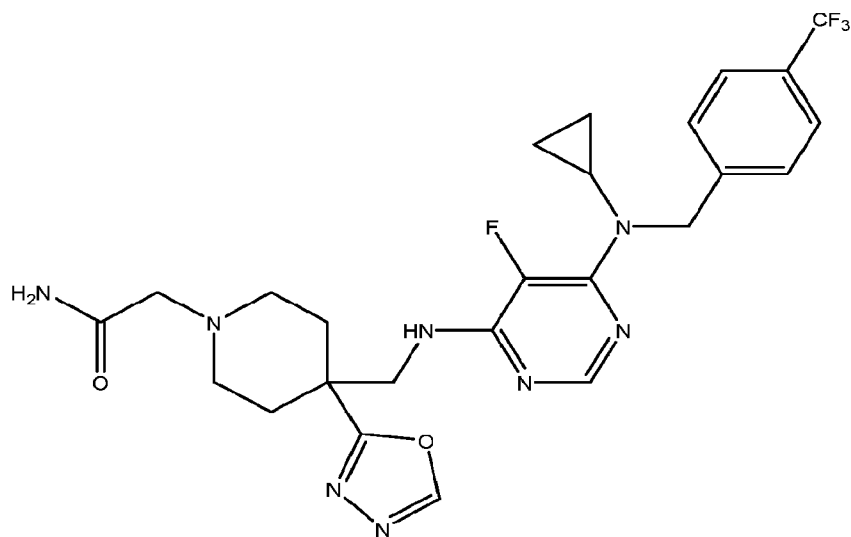
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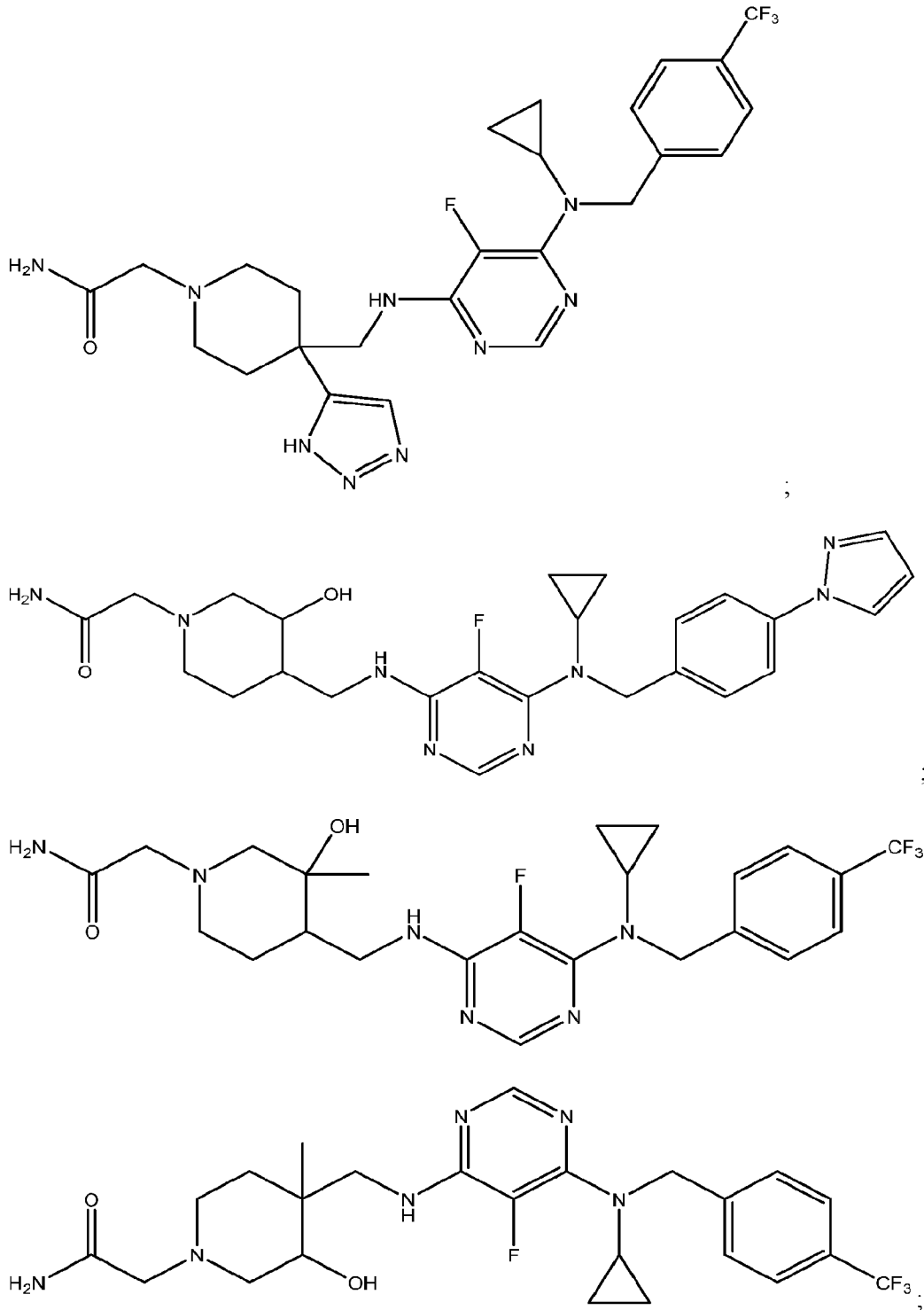


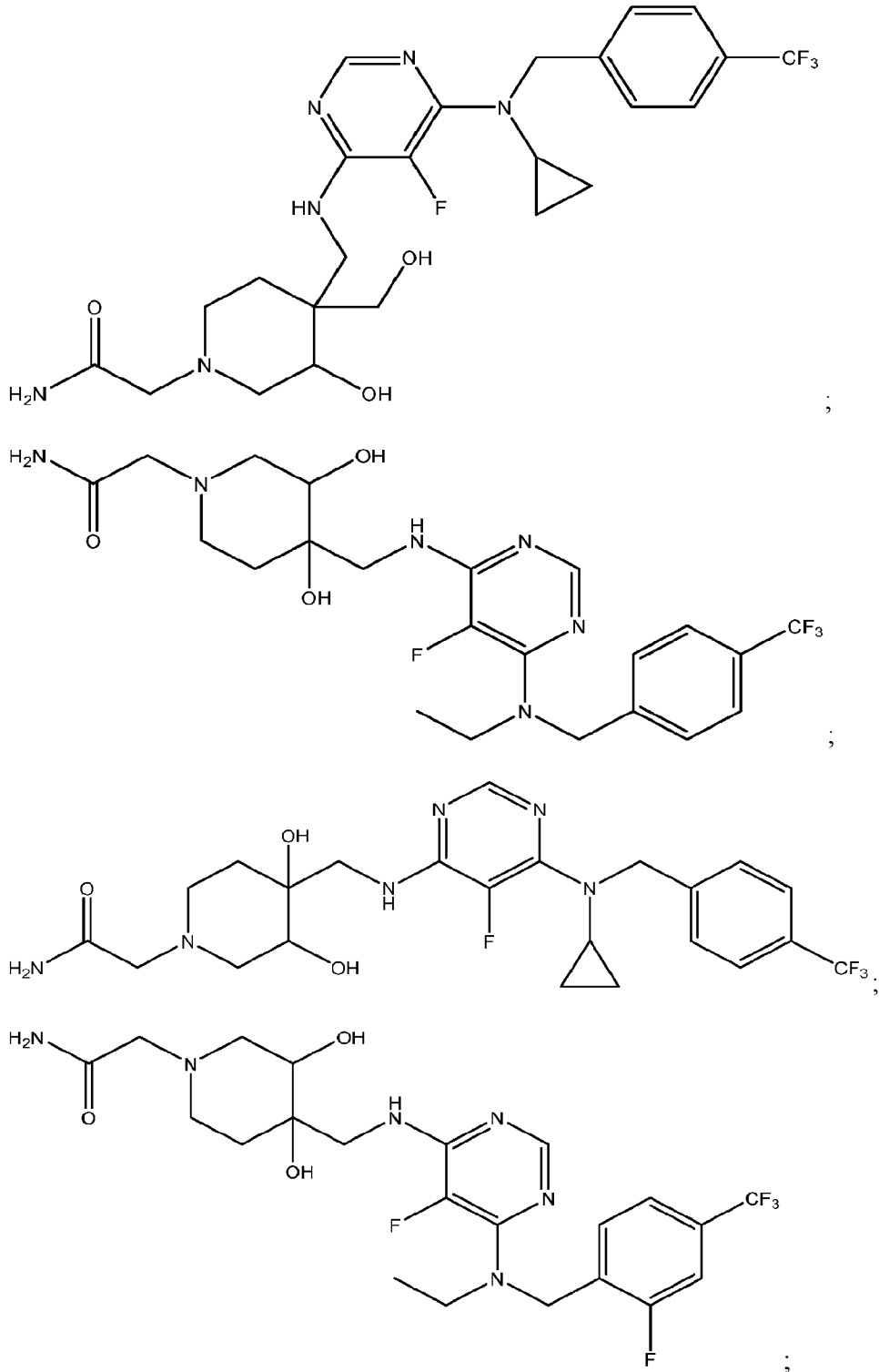


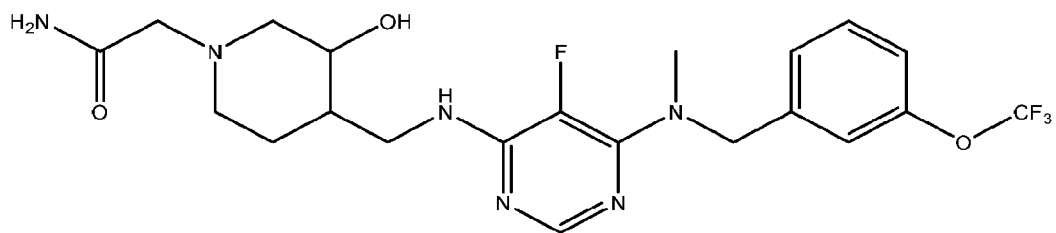
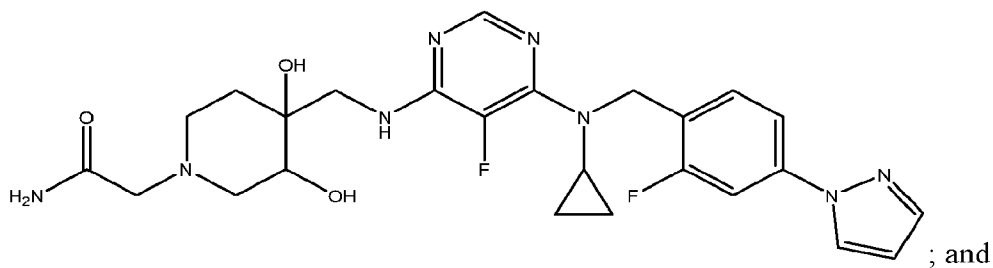
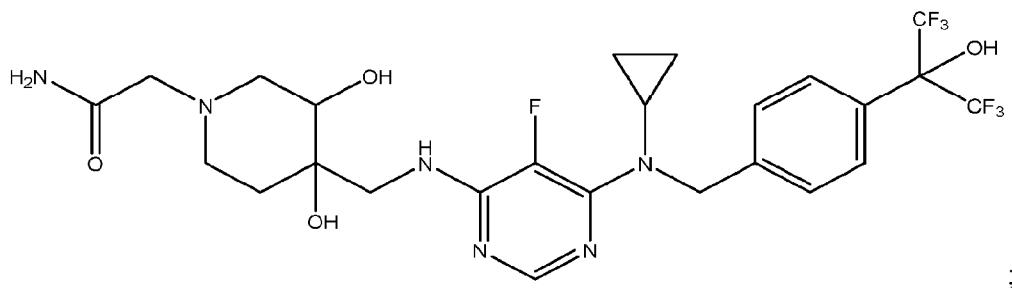
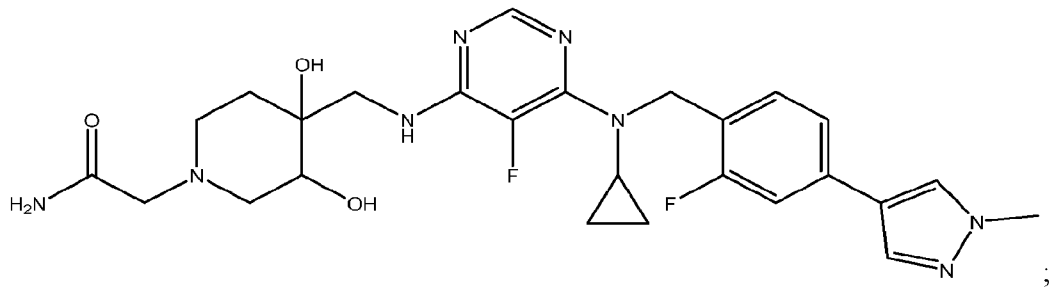
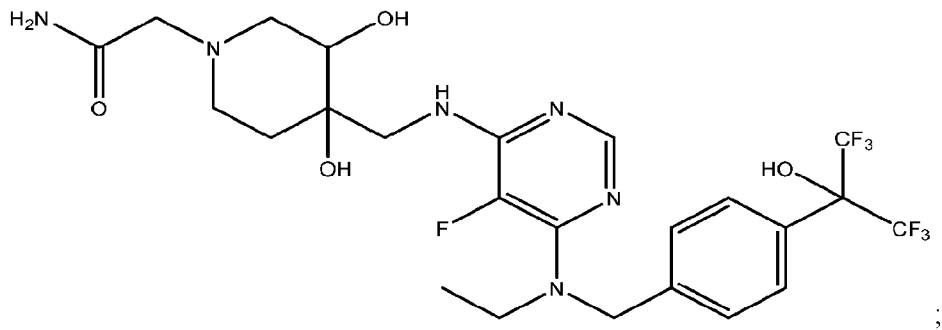
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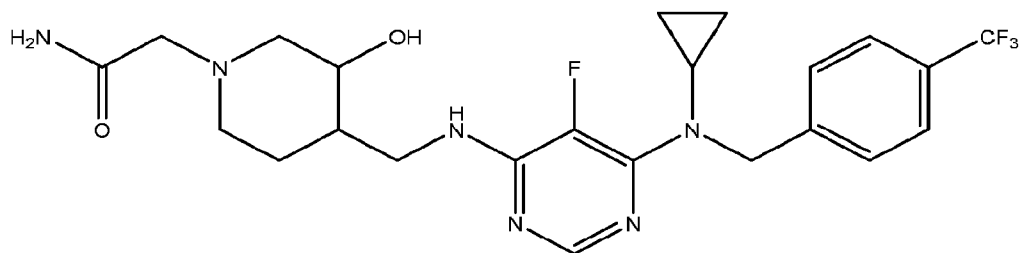
;



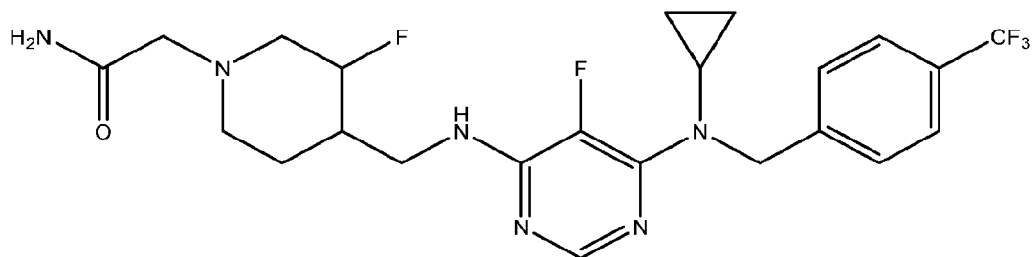




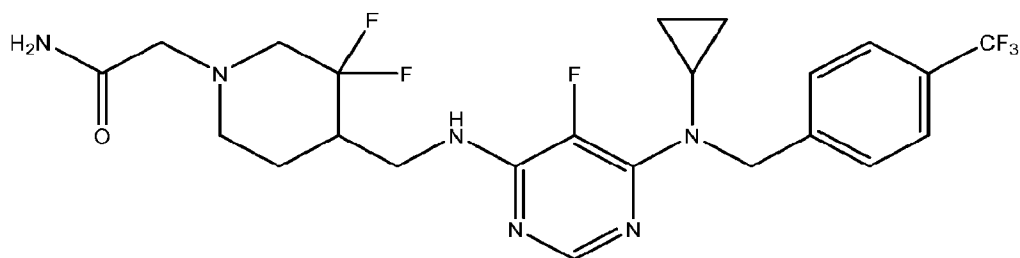
61. The compound, stereoisomer, or salt of claim 60, having a structure of



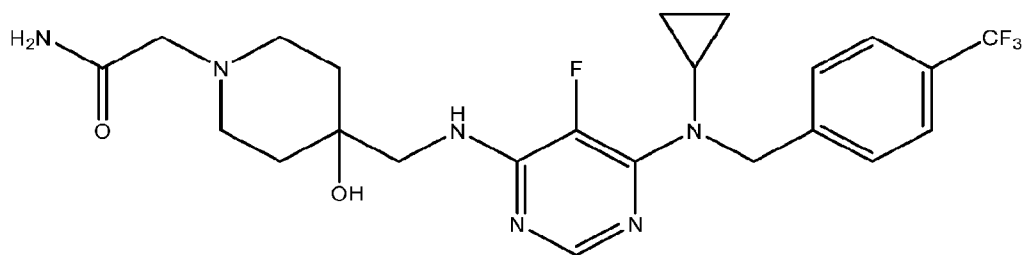
62. The compound, stereoisomer, or salt of claim 60, having a structure of



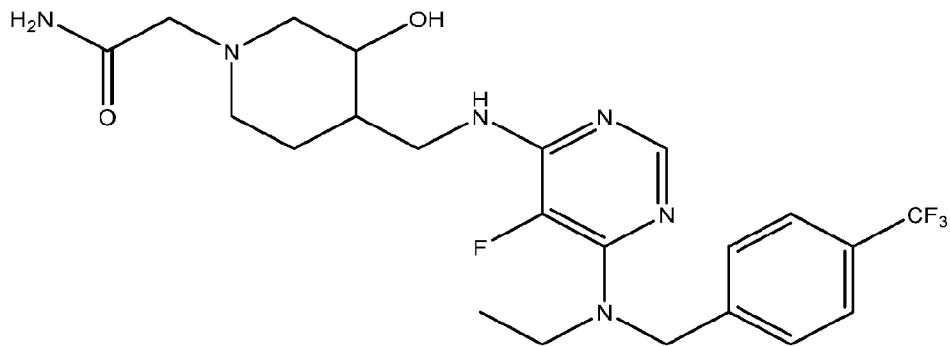
5 63. The compound, stereoisomer, or salt of claim 60, having a structure of



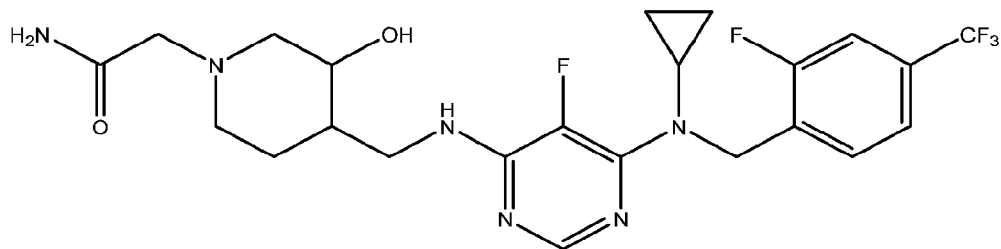
64. The compound, stereoisomer, or salt of claim 60, having a structure of



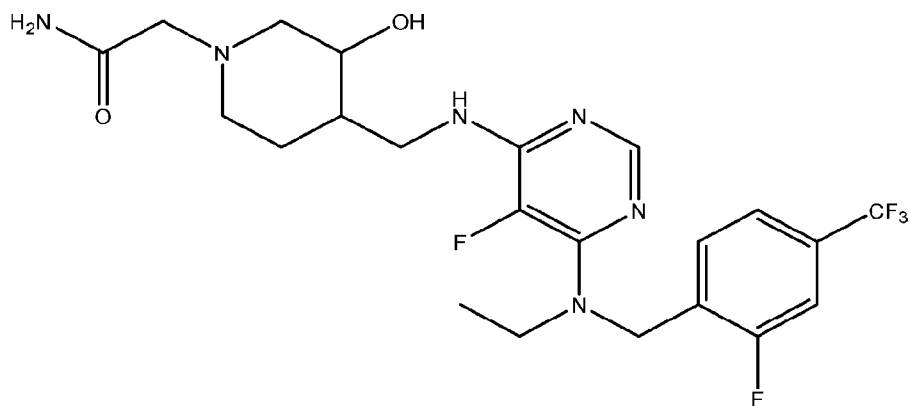
65. The compound, stereoisomer, or salt of claim 60, having a structure of



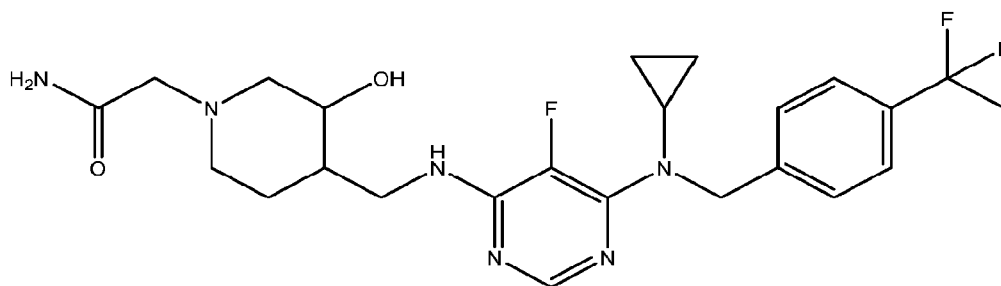
66. The compound, stereoisomer, or salt of claim 60, having a structure of



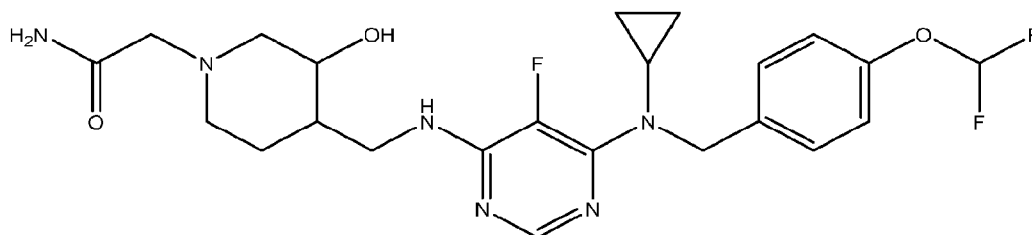
5 67. The compound, stereoisomer, or salt of claim 60, having a structure of



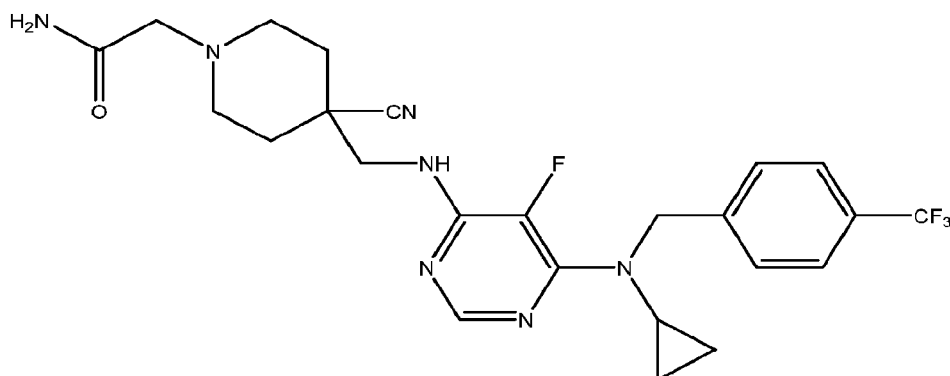
68. The compound, stereoisomer, or salt of claim 60, having a structure of



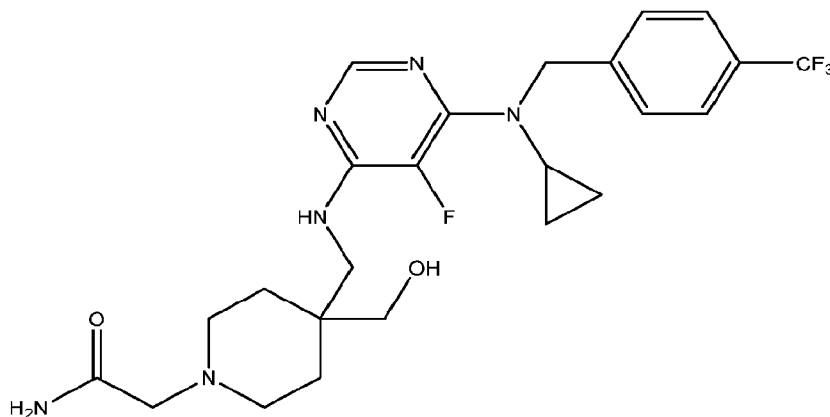
69. The compound, stereoisomer, or salt of claim 60, having a structure of



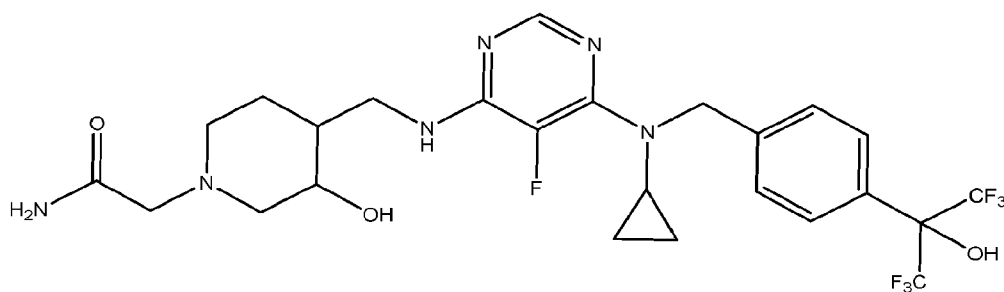
70. The compound, stereoisomer, or salt of claim 60, having a structure of



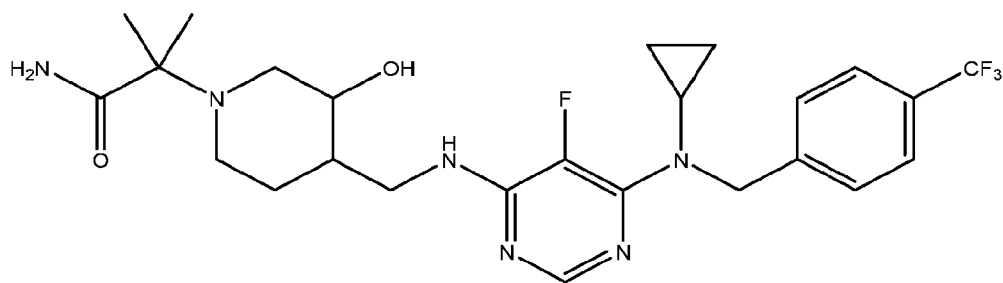
5 71. The compound, stereoisomer, or salt of claim 60, having a structure of



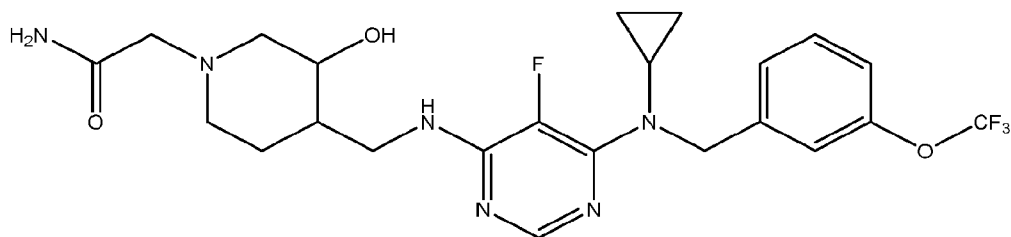
72. The compound, stereoisomer, or salt of claim 60, having a structure of



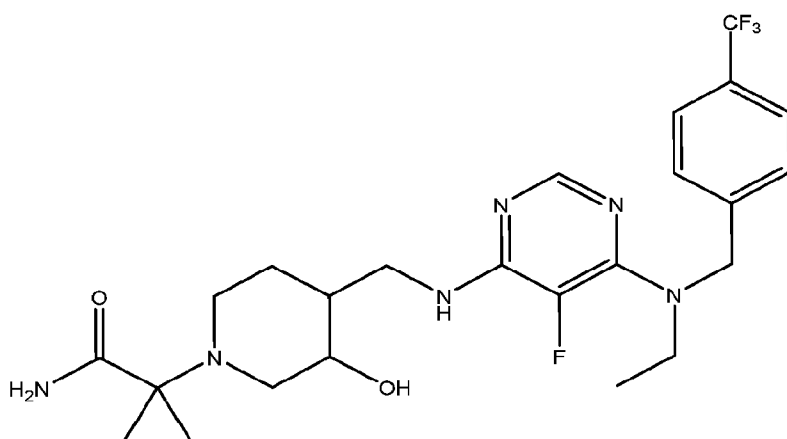
73. The compound, stereoisomer, or salt of claim 60, having a structure of



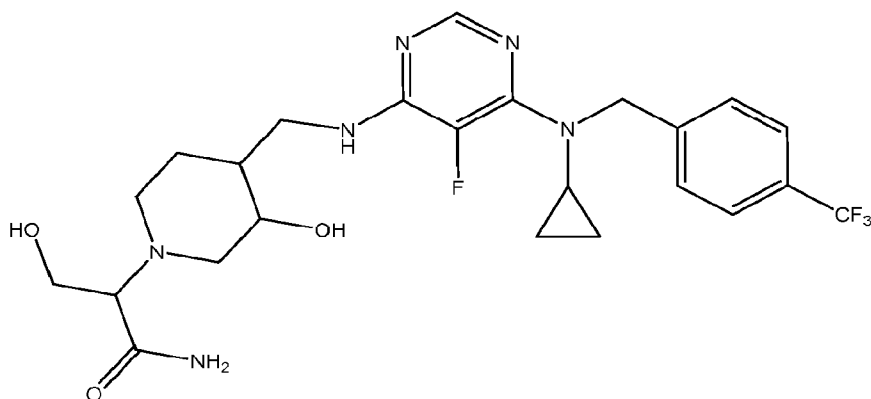
74. The compound, stereoisomer, or salt of claim 60, having a structure of



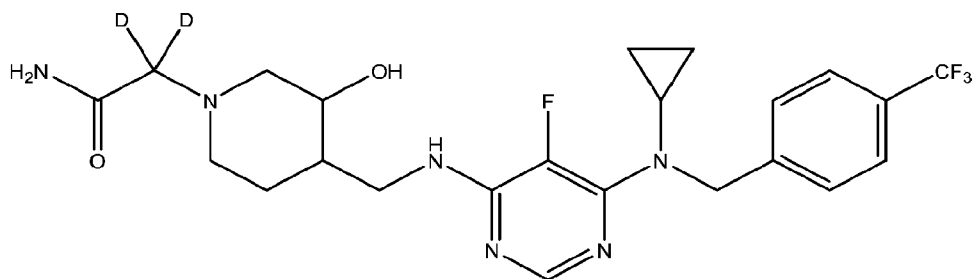
5 75. The compound, stereoisomer, or salt of claim 60, having a structure of



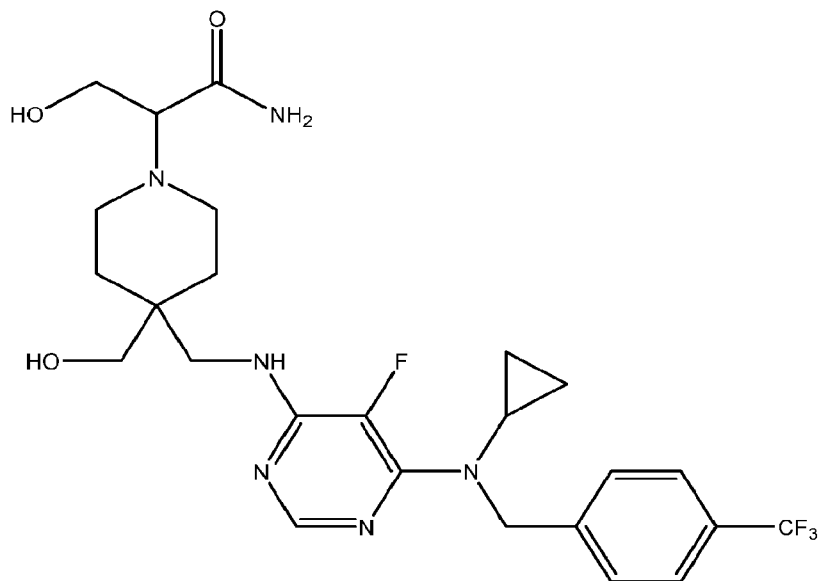
76. The compound, stereoisomer, or salt of claim 60, having a structure of



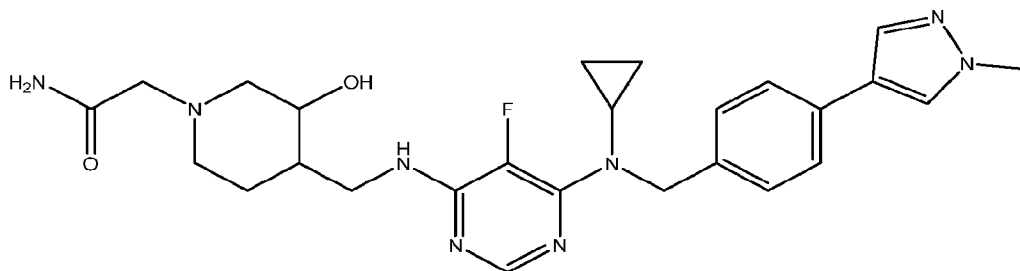
77. The compound, stereoisomer, or salt of claim 60, having a structure of



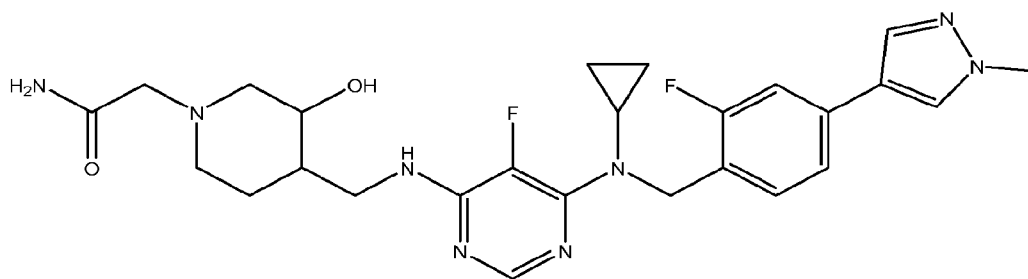
78. The compound, stereoisomer, or salt of claim 60, having a structure of



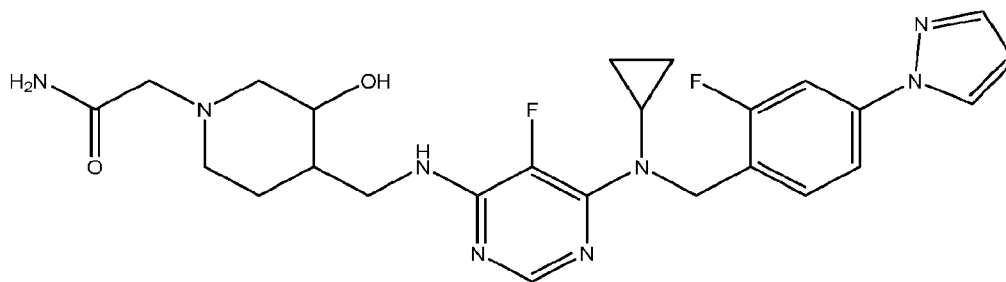
5 79. The compound, stereoisomer, or salt of claim 60, having a structure of



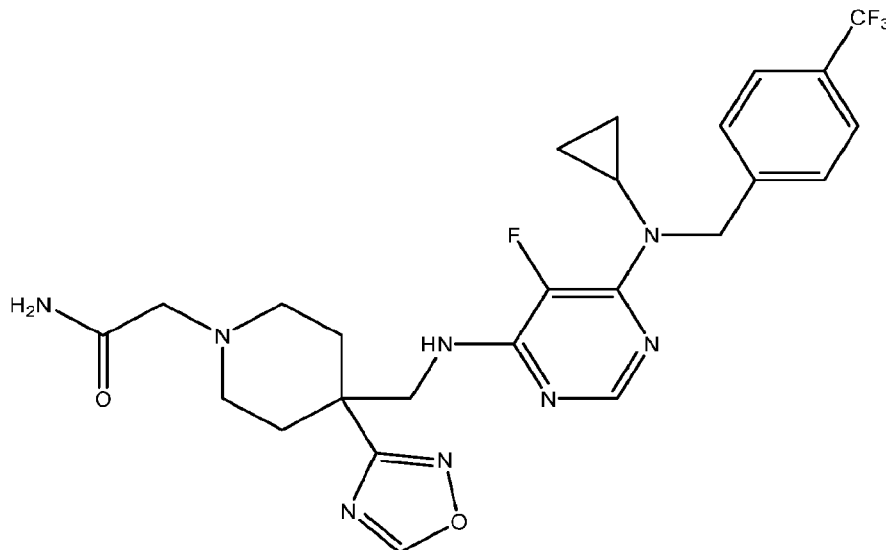
80. The compound, stereoisomer, or salt of claim 60, having a structure of



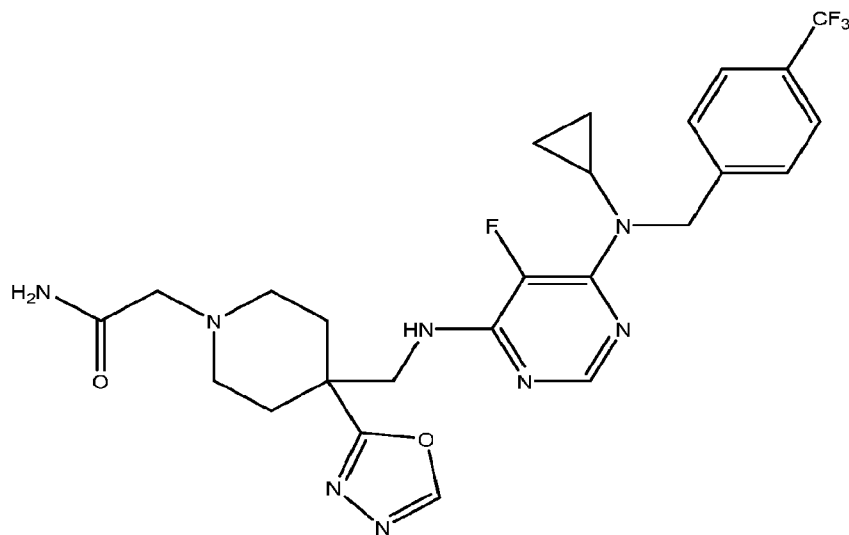
81. The compound, stereoisomer, or salt of claim 60, having a structure of



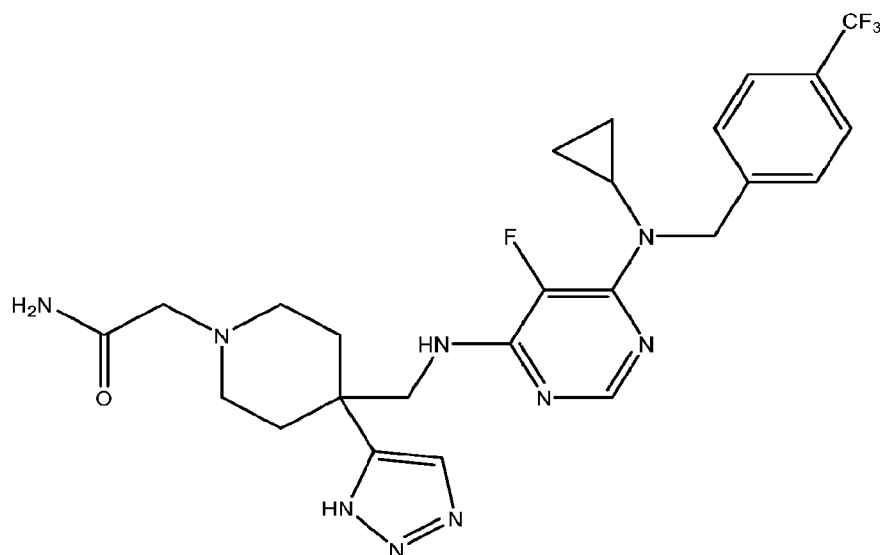
5 82. The compound, stereoisomer, or salt of claim 60, having a structure of



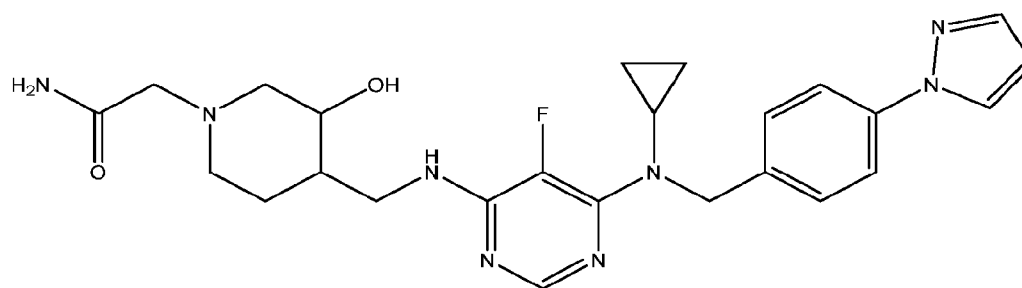
83. The compound, stereoisomer, or salt of claim 60, having a structure of



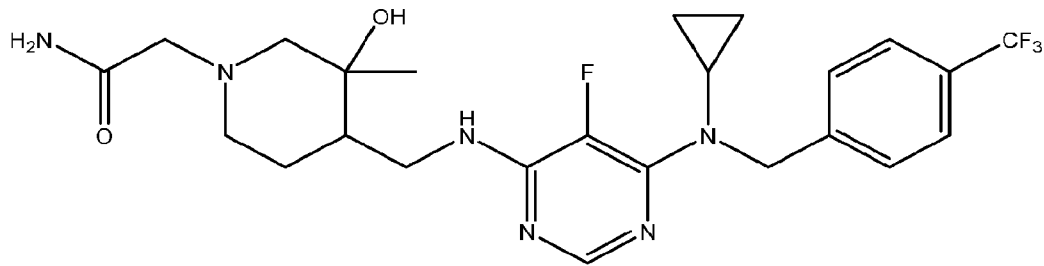
84. The compound, stereoisomer, or salt of claim 60, having a structure of



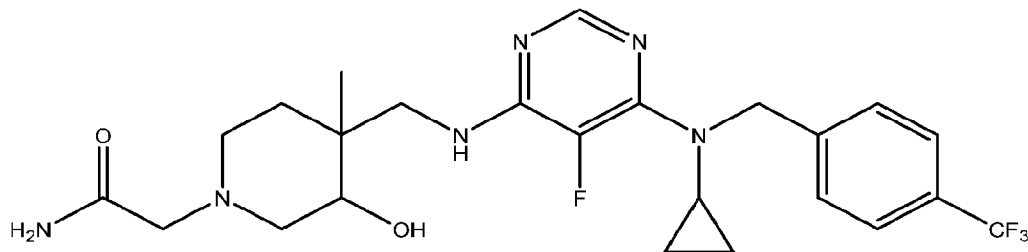
5 85. The compound, stereoisomer, or salt of claim 60, having a structure of



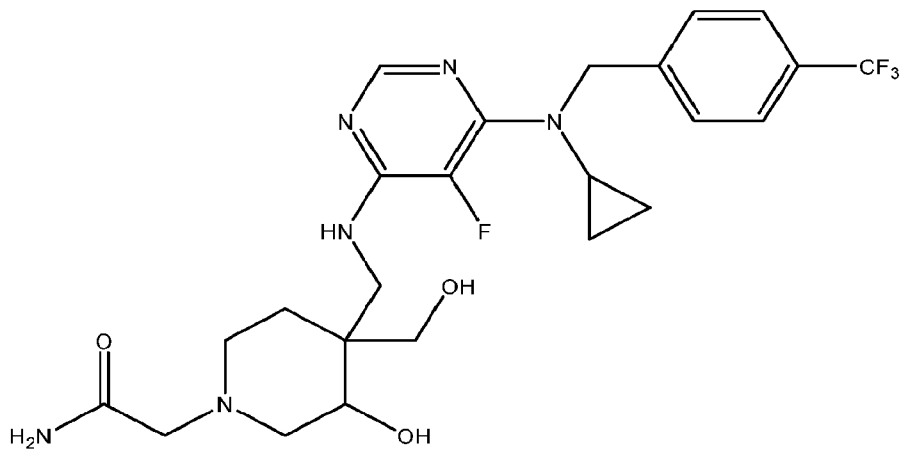
86. The compound, stereoisomer, or salt of claim 60, having a structure of



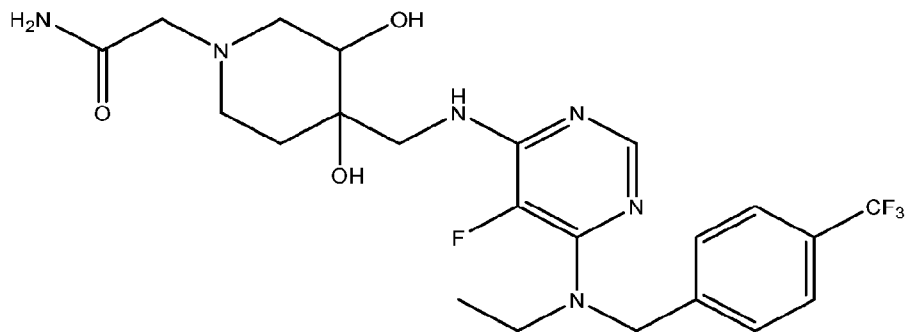
87. The compound, stereoisomer, or salt of claim 60, having a structure of



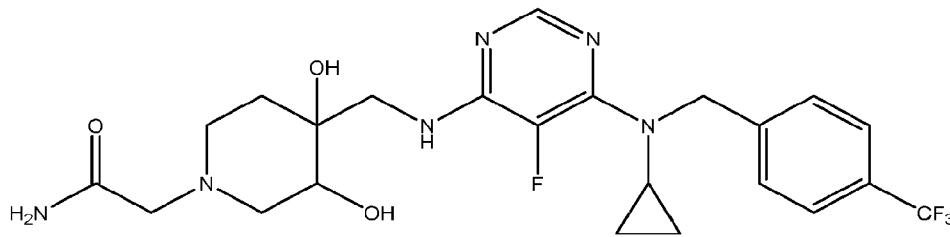
5 88. The compound, stereoisomer, or salt of claim 60, having a structure of



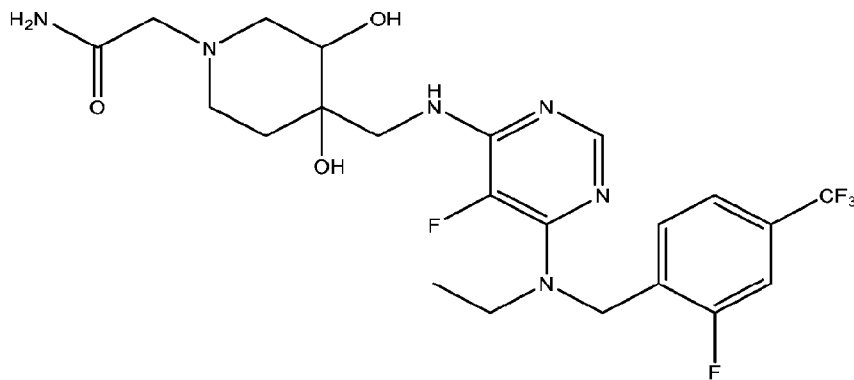
89. The compound, stereoisomer, or salt of claim 60, having a structure of



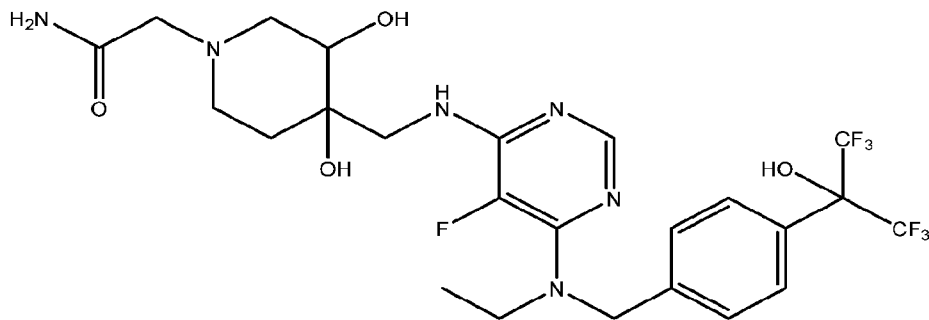
90. The compound, stereoisomer, or salt of claim 60, having a structure of



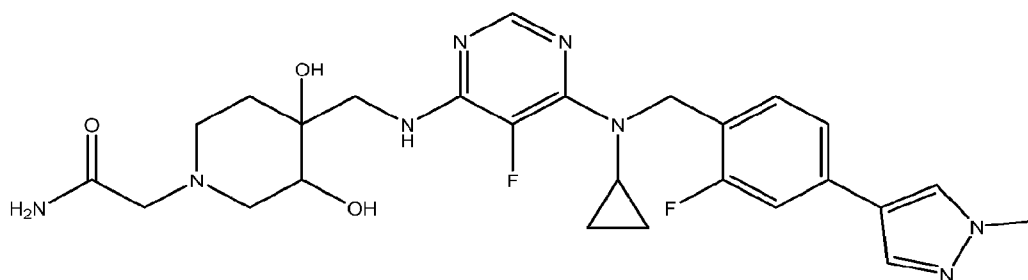
91. The compound, stereoisomer, or salt of claim 60, having a structure of



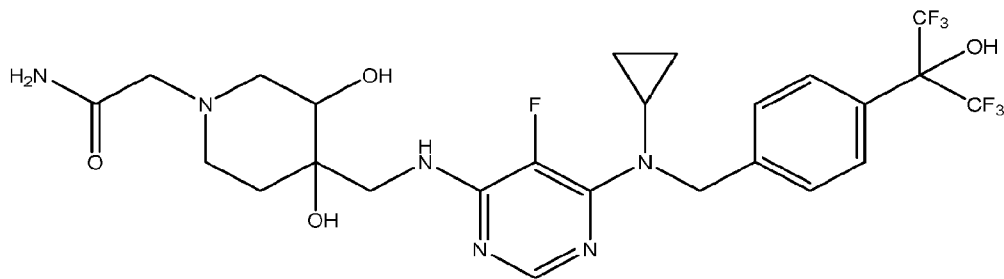
5 92. The compound, stereoisomer, or salt of claim 60, having a structure of



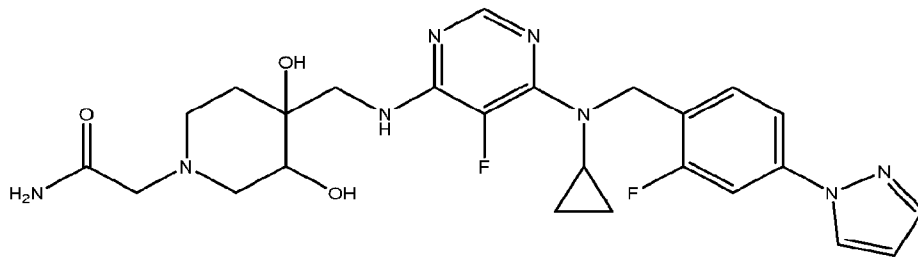
93. The compound, stereoisomer, or salt of claim 60, having a structure of



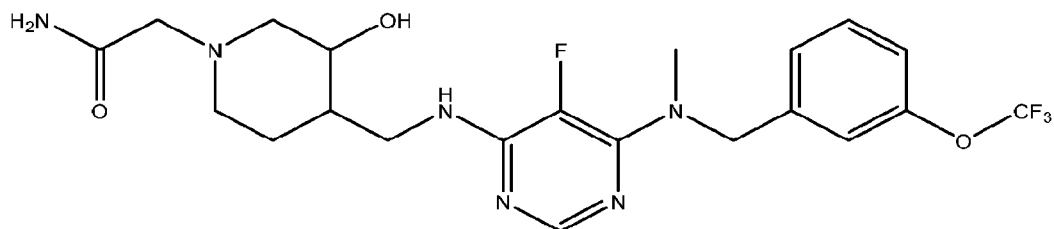
94. The compound, stereoisomer, or salt of claim 60, having a structure of



95. The compound, stereoisomer, or salt of claim 60, having a structure of



5 96. The compound, stereoisomer, or salt of claim 60, having a structure of



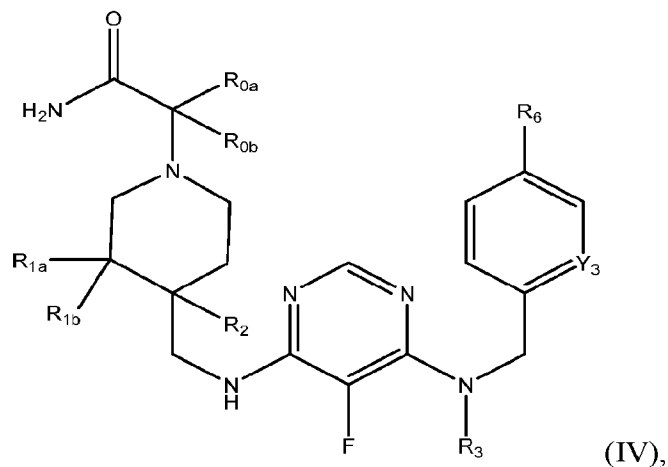
97. The compound, stereoisomer, or salt according to any one of claims 1-40, wherein R_{0a} is selected from the group consisting of CN, substituted or unsubstituted heteroalicycyl, and substituted or unsubstituted heteroaryl; and R_{0b} is hydrogen or C_{1-4} alkyl.

10 98. The compound, stereoisomer, or salt according to claim 97, wherein R_{0a} is unsubstituted or substituted heteroaryl.

99. The compound, stereoisomer, or salt according to claim 98, wherein R_{0a} is substituted or unsubstituted pyridinyl.

15 100. The compound, stereoisomer, or salt according to claim 97 or 98, wherein R_{0b} is hydrogen.

101. The compound, stereoisomer, or salt according to claim 1, having a structure of Formula (IV):



wherein:

R_{0a} is a substituted or unsubstituted pyridinyl;

R_{0b} is hydrogen;

5 R_{1a} is hydroxyl;

R_{1b} is hydrogen;

R_2 is hydrogen or hydroxyl;

R_3 is ethyl or cyclopropyl;

R_6 is CF_3 ; and

10 Y_3 is CR_8 , wherein R_8 is hydrogen or fluoro.

102. The compound, stereoisomer, or salt according to claim 1, wherein:

R_{0a} is selected from the group consisting of CN, pyridinyl, and tetrahydropyranyl;

R_{0b} is hydrogen;

R_{1a} is hydroxyl;

15 R_{1b} is hydrogen;

R_2 is hydrogen or hydroxyl;

R is hydrogen;

R_3 is ethyl or cyclopropyl;

R_4 is hydrogen;

20 R_5 is hydrogen;

R_6 is CF_3 ;

R_7 is hydrogen; and

Y_1 , Y_2 and Y_3 are each CH.

103. The compound, stereoisomer, or salt according to claim 1, wherein: R_{0a} is pyridinyl; R_{0b} is hydrogen; R_{1a} is hydroxyl; R_{1b} is hydrogen; R_2 is hydrogen or hydroxyl; R is hydrogen; R_3 is ethyl or cyclopropyl; R_4 is hydrogen; R_5 is hydrogen; R_6 is CF_3 ; R_7 is hydrogen; and Y_1 , Y_2 and Y_3 are each CH.

5 104. The compound, stereoisomer, or salt thereof according to claim 1, selected from the group consisting of:

rac-2-cyano-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

10 *rac*-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rac-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide,

15 *rel*-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rel-(*R*)-2-(((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

20 *rel*-(*R*)-2-(((3*S*,4*S*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and

rel-2-(((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

105. The compound, stereoisomer, or salt thereof according to claim 1, selected from the group consisting of:

25 2-cyano-2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide,

2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

30 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide,

2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and
2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

5 106. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-cyano-2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)acetamide.

107. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

108. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

109. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(tetrahydro-2*H*-pyran-4-yl)acetamide.

110. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-(4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

111. The compound, stereoisomer, or salt according to claim 105, wherein the compound is 2-(4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.

112. The compound, stereoisomer, or salt according to claim 105, selected from the group consisting of:

25 *rac*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rac-2-((3*R*,4*R*)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3-hydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

30 *rel*-2-((3*R*,4*R*)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rel-(R)-2-((3R,4R)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide,

rel-(R)-2-((3S,4S)-4-(((6-(ethyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide, and

5 *rel-2-((3R,4R)-4-(((6-(cyclopropyl(4-(trifluoromethyl)benzyl)amino)-5-fluoropyrimidin-4-yl)amino)methyl)-3,4-dihydroxypiperidin-1-yl)-2-(pyridin-4-yl)acetamide.*

113. A pharmaceutical composition comprising a compound, stereoisomer, or salt according to any one of claims 1-112 and at least one pharmaceutical acceptable excipient.

10 114. A compound, stereoisomer, or salt according to any one of claims 1-112 or a pharmaceutical composition according to claim 113, for use as a medicament.

115. A compound, stereoisomer, or salt according to any one of claims 1-112 or a pharmaceutical composition according to claim 113, for use in the treatment and/or prevention of an inflammatory, metabolic, oncologic or autoimmune disease.

15 116. A method of treating an inflammatory, metabolic, oncologic or autoimmune disease in a subject suffering therefrom, the method comprising: administering to the subject a compound, stereoisomer, or salt according to any one of claims 1-112 or a pharmaceutical composition according to claim 113.

20 117. The compound, stereoisomer, or salt or pharmaceutical composition for use according to claim 115 or the method of claim 116, wherein the disease is selected from the group consisting of asthma, acne, chronic obstructive pulmonary disease (COPD), bronchitis, atherosclerosis, helicobacter pylori infection, allergic diseases including allergic rhinitis, allergic conjunctivitis and uveitis, sprue and food allergy, atopic dermatitis, cystic fibrosis, lung allograft rejection, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, ichthyoses, bullous
25 diseases, lichen planus, hidradenitis suppurativa, steatosis, steatohepatitis, non-alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH), lupus erythematosus, Hashimoto's disease, pancreatitis, autoimmune diabetes, autoimmune ocular disease, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD), inflammatory bowel syndrome (IBS), Sjogren's syndrome, optic neuritis, type I diabetes, neuromyelitis
30 optica, Myasthenia Gravis, Guillain-Barre syndrome, Graves' disease, scleritis, obesity, obesity-induced insulin resistance, type II diabetes, and cancer.

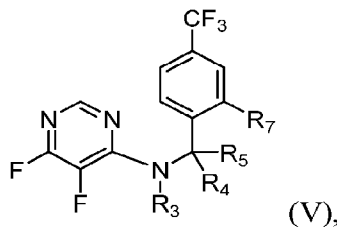
118. The compound, stereoisomer, or salt or pharmaceutical composition for use according to claim 115 or method of claim 116, wherein the disease is selected from the group consisting of acne, atopic dermatitis, multiple sclerosis, rheumatoid arthritis, juvenile idiopathic arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, ichthyoses, bullous diseases, lichen planus, hidradenitis suppurativa, ulcerative colitis, colitis, Crohn's disease, inflammatory bowel disease (IBD) and lupus erythematosus.

119. A combination product comprising (i) at least one compound, stereoisomer, or salt according to any one of claims 1-112 and (ii) one or more active ingredients selected from the group consisting of :

- a) Corticosteroids, such as prednisone, methylprednisolone or beta-methasone;
- b) Immunosuppressants, such as cyclosporine, tacrolimus methotrexate, hydroxyurea, mycophenolate mofetil, mycophenolic acid, sulfasalazine, 6-thioguanine or azathioprine;
- c) Fumaric acid esters, such as dimethyl fumarate;
- d) Dihydroorotate dehydrogenase (DHODH) inhibitors such as leflunomide;
- e) Retinoids, such as acitretin or isotretinoin;
- f) Anti-inflammatories such as apremilast, crisaborole, celecoxib, diclofenac, aceclofenac, aspirin or naproxen;
- g) JAK inhibitors such as tofacitinib, baricitinib, upadacitinib, ruxolitinib or delgocitinib;
- h) Antibiotics such as gentamicin;
- i) Anti-cancer agents such as lenalidomide, pomalidomide, pembrolizumab, nivolumab, daratumumab, bortezomib, carfilzomib, ixazomib, bendamustine or ventoclast;
- j) T-cell blockers such as alefacept or efalizumab;
- k) Tumor necrosis factor-alpha (TNF-alpha) blockers such as etanercept, adalimumab, infliximab, golimumab, certolizumab pegol;
- l) interleukin 12/23 blockers such as ustekinumab;
- m) IL-23 blockers such as risankizumab, guselkumab or tildrakizumab;
- n) anti-IL4/IL13 antagonist such as dupilumab, lebrikizumab or tralokinumab;
- o) IL-1 β blockers such as canakinumab;
- p) IL-alpha blockers such as bermekimab;
- q) CD6 blockers such as itolizumab;
- r) IL-36R blockers such as BI-655130 or bimekizumab;
- s) IL-6 antagonist such as tocilizumab;

- t) Calcineurin inhibitors such as pimecrolimus, tacrolimus or cyclosporine;
- u) Phototherapy agents commonly employed in phototherapy such as psoralen, methoxypsoralen or 5-methoxypsoralen + UVA (PUVA) or treatment with UVB (with or without tar);
- 5 v) Fixed combinations of corticosteroids and vitamin D derivatives;
- w) Fixed combinations of corticosteroids and retinoids;
- x) Corticosteroid tapes; and
- y) one or more agents selected from the group consisting of BMS986165, PF-06700841, PF-06826647, piclidenoson, tepilamide fumarate, LYC-30937, LEO-32731, BI-730357, PRCL-02, LNP-1955, GSK-2982772, CBP-307, KD-025, MP-1032, petesicatib, JTE-451, Hemay-005, SM-04755, EDP-1815, BI-730460, SFA-002 ER, JNJ-3534, SAR-441169, BOS-172767, SCD-044, ABBV-157, BAY-1834845, AUR-101, R-835, PBF-1650, RTA-1701, AZD-0284, mirikizumab, CD20 antagonist, salicylic acid, coal tar, Mical-1, DUR-928, AM-001, BMX-010, TA-102, SNA-125, brepocitinib tosylate, pegcantratinib, 15 ESR-114, NP-000888, SM-04755, BOS-475, SB-414, LEO-134310, CBS-3595, PF-06763809, XCUR-17 and BTX-1308.

120. A compound according to Formula (V):



a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer, wherein:

R_3 is selected from the group consisting of C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-6} hydroxyhaloalkyl, C_{1-4} alkylene- C_{1-4} alkoxy, substituted or unsubstituted C_{3-7} cycloalkyl, and substituted or unsubstituted C_{3-7} cycloalkenyl;

R_4 and R_5 are each independently hydrogen or C_{1-4} alkyl, or R_4 and R_5 are taken together with the carbon atom to which they are attached to form a C_{3-4} cycloalkyl;

R_7 is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl; and

when substituted, a heteroaryl is substituted with 1 to 3 substituents independently selected from the group consisting of C_{1-4} alkyl, C_{1-4} hydroxyalkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, hydroxy, C_{1-4} alkoxy, cyano, halogen, C_{1-4} haloalkyl, C_{1-4} haloalkoxy and C_{1-6} hydroxyhaloalkyl; and

when substituted, a cycloalkyl or cycloalkenyl is substituted with 1 to 3

substituents independently selected from the group consisting of C₁₋₄ alkyl and halogen; with the proviso that when each of R₄, R₅, and R₇ is hydrogen, then R₃ is not cyclopropyl, and when R₇ is hydrogen, and R₄ and R₅, together with the carbon to which they are attached, form a cyclopropyl, then R₃ is not methyl.

5 121. The compound, stereoisomer, or salt of claim 120, wherein R₃ is C₁₋₄ alkyl.

122. The compound, stereoisomer, or salt of claim 121, wherein R₃ is ethyl.

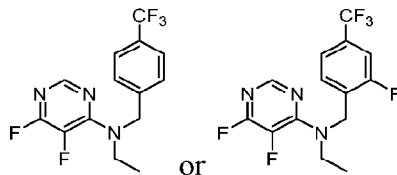
123. The compound, stereoisomer, or salt of any one of claims 120-122, wherein at least one of R₄ and R₅ is hydrogen.

10 124. The compound, stereoisomer, or salt of claim 123, wherein each of R₄ and R₅ is hydrogen.

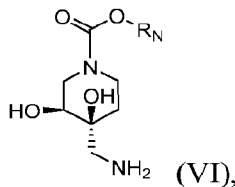
125. The compound, stereoisomer, or salt of any one of claims 120-124, wherein R₇ is hydrogen.

126. The compound, stereoisomer, or salt of any one of claims 120-124, wherein R₇ is fluoro.

15 127. The compound, stereoisomer, or salt of claim 120, having the structure:



128. A compound according to Formula (VI):



or a pharmaceutically acceptable salt thereof, wherein:

20 R_N is C₁₋₄ alkyl, C₁₋₄ haloalkyl, or C₁₋₄alkylene-phenyl optionally substituted with hydroxyl, CN, halogen, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy, C₁₋₄ haloalkoxy, or NO₂.

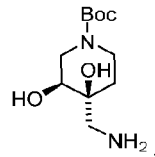
129. The compound or salt of claim 128, wherein R_N is *t*-butyl.

130. The compound or salt of claim 128, wherein R_N is C₁₋₄ alkylene-phenyl.

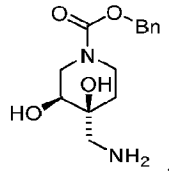
131. The compound or salt of claim 130, wherein R_N is CH₂-phenyl.

25 132. The compound or salt of claim 131, wherein phenyl is unsubstituted.

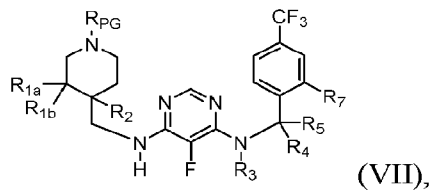
133. The compound or salt of claim 128, having the structure:



134. The compound or salt of claims 128, having the structure:



135. A compound according to Formula (VII):



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a stereoisomer thereof, or a pharmaceutically acceptable salt of the compound or stereoisomer, wherein:

R_{PG} is H, CO_2R_N , or C_{1-4} alkylene-phenyl optionally substituted with hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, or NO_2 ;

10 R_N is C_{1-4} alkyl, C_{1-4} haloalkyl, or C_{1-4} alkylene-phenyl optionally substituted with hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, or NO_2 ;

R_{1a} and R_{1b} are independently selected from the group consisting of hydrogen, hydroxyl, halogen, amino, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, and C_{1-4} haloalkyl;

15 R_2 is selected from the group consisting of hydrogen, hydroxyl, amino, cyano, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, $C(=O)OH$, $C(=O)NH_2$, $C(=O)O-C_{1-4}$ alkyl, and substituted or unsubstituted heteroaryl; or

R_{1a} and R_2 together form a double bond and R_{1b} is hydrogen;

20 R_3 is selected from the group consisting of C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-6} hydroxyhaloalkyl, C_{1-4} alkylene- C_{1-4} alkoxy, substituted or unsubstituted C_{3-7} cycloalkyl, and substituted or unsubstituted C_{3-7} cycloalkenyl;

R_4 and R_5 are each independently hydrogen or C_{1-4} alkyl, or R_4 and R_5 are taken together with the carbon atom to which they are attached to form a C_{3-4} cycloalkyl;

25 R_7 is selected from the group consisting of hydrogen, hydroxyl, CN, halogen, C_{1-4} alkyl, C_{1-4} haloalkyl, C_{1-4} hydroxyalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, and substituted or unsubstituted heteroaryl; and

when substituted, a heteroaryl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ hydroxyalkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, cyano, halogen, C₁₋₄ haloalkyl, C₁₋₄ haloalkoxy and C₁₋₆ hydroxyhaloalkyl;

5 and

when substituted, a cycloalkyl or cycloalkenyl is substituted with 1 to 3 substituents independently selected from the group consisting of C₁₋₄ alkyl and halogen.

136. The compound, stereoisomer, or salt of claim 135, wherein at least one of R_{1a} and R_{1b} is hydrogen.

10 137. The compound, stereoisomer, or salt of claim 135 or 136, wherein at least one of R_{1a} and R_{1b} is hydroxyl.

138. The compound, stereoisomer, or salt of any one of claims 135-137, wherein one of R_{1a} and R_{1b} is hydrogen and the other is hydroxyl.

15 139. The compound, stereoisomer, or salt of any one of claims 135-138, wherein R₂ is hydroxyl.

140. The compound, stereoisomer, or salt of any one of claims 135-139, wherein R₃ is C₁₋₄ alkyl.

141. The compound, stereoisomer, or salt of claim 140, wherein R₃ is ethyl.

20 142. The compound, stereoisomer, or salt of any one of claims 135-141, wherein at least one of R₄ and R₅ is hydrogen.

143. The compound, stereoisomer, or salt of claim 142, wherein both R₄ and R₅ are hydrogen.

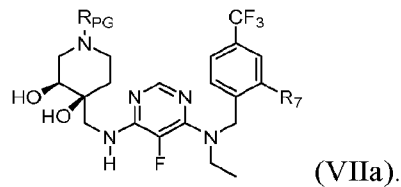
144. The compound, stereoisomer, or salt of any one of claims 135-143, wherein R₆ is C₁₋₄ haloalkyl.

25 145. The compound, stereoisomer, or salt of any one of claims 135-144, wherein R₇ is hydrogen.

146. The compound, stereoisomer, or salt of any one of claims 135-144, wherein R₇ is halogen.

147. The compound, stereoisomer, or salt of claim 146, wherein R₇ is fluoro.

148. The compound, stereoisomer, or salt of any one of claims 135 and 145-147, having the structure of Formula (VIIa):

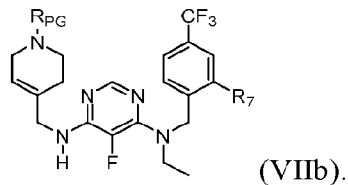


149. The compound, stereoisomer, or salt of claim 148, wherein R₇ is hydrogen.

5 150. The compound, stereoisomer, or salt of claim 148, wherein R₇ is halogen.

151. The compound, stereoisomer, or salt of claim 150, wherein R₇ is fluoro.

152. The compound, stereoisomer, or salt of claim 135, having the structure of Formula (VIIb):



10 153. The compound, stereoisomer, or salt of claim 152, wherein R₇ is hydrogen.

154. The compound, stereoisomer, or salt of claim 152, wherein R₇ is halogen.

155. The compound, stereoisomer, or salt of claim 154, wherein R₇ is fluoro.

156. The compound, stereoisomer, or salt of any one of claims 135-155, wherein R_{PG} is hydrogen.

15 157. The compound, stereoisomer, or salt of any one of claims 135-155, wherein R_{PG} is CO₂R_N.

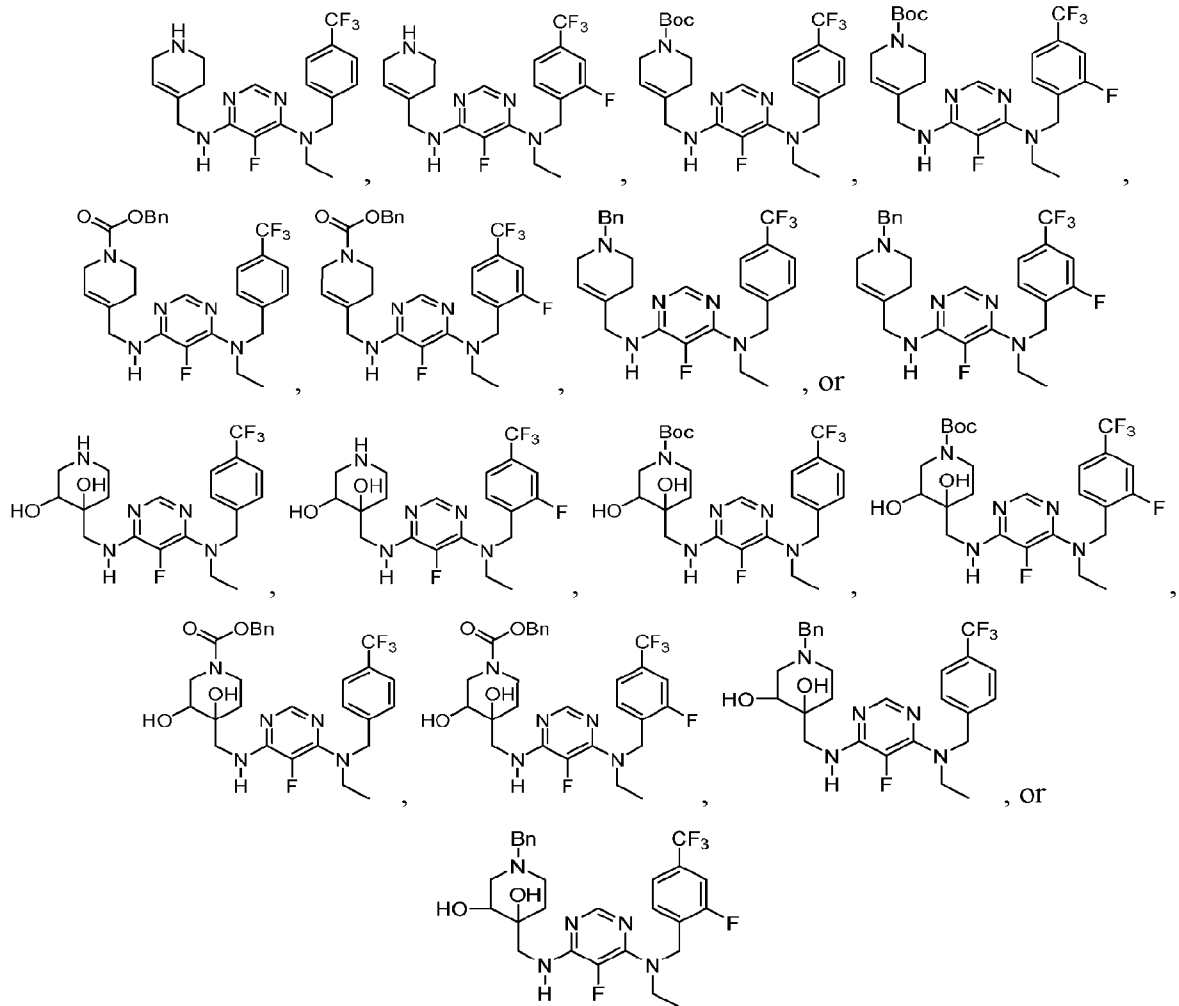
158. The compound, stereoisomer, or salt of claim 157, wherein R_{PG} is CO₂-C₁₋₄ alkyl.

159. The compound, stereoisomer, or salt of claim 158, wherein R_{PG} is CO₂-*t*-butyl.

20 160. The compound, stereoisomer, or salt of any one of claims 135-155, wherein R_{PG} is C₁₋₄ alkylene-phenyl.

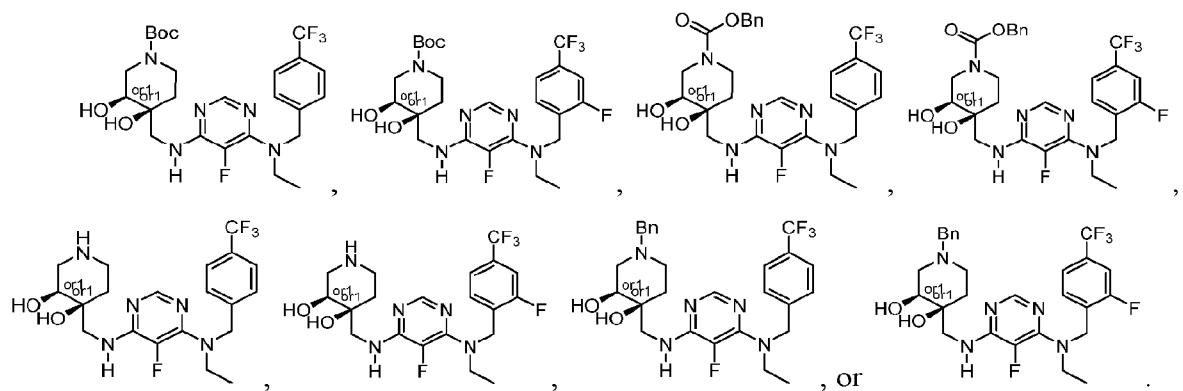
161. The compound, stereoisomer, or salt of claim 160, wherein R_{PG} is benzyl.

162. The compound, stereoisomer, or salt of claim 135, having the structure:



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163. The compound, stereoisomer, or salt of claim 162, having the structure:



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