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(54) Title: AMINOINDAZOLE DERIVATIVES ACTIVE AS KINASE INHIBITORS, PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

(57) Abstract: Compounds which are 3-aminoindazole derivatives or pharmaceutically acceptable salts thereof, together with pharmaceutical compositions comprising them are disclosed; these compounds or compositions are useful in the treatment of diseases caused by and/or associated with an altered protein kinase activity such as cancer, cell proliferative disorders, Alzheimer's disease, viral infections, auto-immune diseases and neurodegenerative disorders.

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AMINOINDAZOLE DERIVATIVES ACTIVE AS KINASE INHIBITORS,
PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL
COMPOSITIONS CONTAINING THEM

The present invention relates to aminoindazole derivatives active as kinase inhibitors and, more in particular, it relates to 3-amino-indazole derivatives, to a process for their preparation, to pharmaceutical compositions comprising them and to their use as therapeutic agents, particularly in the treatment of diseases linked to disregulated protein kinases.

- The malfunctioning of protein kinases (PKs) is the hallmark 15 of numerous diseases. A large share of the oncogenes and proto-oncogenes involved in human cancers code for PKs. The enhanced activities of PKs are also implicated in many diseases, such non-malignant as benign prostate hyperplasia, familial adenomatosis, polyposis, 20 neurofibromatosis, psoriasis, vascular smooth cell proliferation atherosclerosis, pulmonary fibrosis, associated with arthritis glomerulonephritis and post-surgical stenosis and restenosis.
- 25 PKs are also implicated in inflammatory conditions and in the multiplication of viruses and parasites. PKs may also play a major role in the pathogenesis and development of neurodegenerative disorders.
- For a general reference to PKs malfunctioning or 30 disregulation see, for instance, Current Opinion in Chemical Biology 1999,3, 459 465.

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It is an object of the invention to provide compounds which are useful in therapy as agents against a host of diseases caused by and/or associated to a disregulated protein kinase activity.

It is another object to provide compounds which are endowed with multiple protein kinase inhibiting activity.

The present inventors have now discovered that some 3aminoindazole derivatives, hereinafter shortly referred to as indazole derivatives or indazoles, are endowed with multiple protein kinase inhibiting activity and are thus useful in therapy in the treatment of diseases associated with disregulated protein kinases.

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More specifically, the indazoles of this invention are 10 useful in the treatment of a variety of cancers including, but not limited to: carcinoma such as bladder, breast, colon, kidney, liver, lung, including small cell cancer, esophagus, gall-bladder, ovary, pancreas, stomach, cervix, thyroid, prostate, and skin, including squamous cell carcinoma; hematopoietic tumors of lymphoid lineage, 15 including leukemia, acute lymphocitic leukemia, lymphoblastic leukemia, B-cell lymphoma, T-cell-lymphoma, Hodgkin's lymphoma, non-Hodgkin's lymphoma, hairy cell lymphoma and Burkett's lymphoma; hematopoietic tumors of myeloid lineage, including acute and chronic myelogenous leukemias, myelodysplastic syndrome and promyelocytic leukemia; tumors of mesenchymal origin, including fibrosarcoma and rhabdomyosarcoma; tumors of the central and peripheral nervous system, including astrocytoma, neuroblastoma, glioma and schwannomas; other tumors, including melanoma, seminoma, teratocarcinoma, osteosarcoma, xeroderma pigmentosum, keratoxanthoma, thyroid follicular cancer and Kaposi's sarcoma.

Due to the key role of PKs in the regulation of cellular proliferation, these indazoles are also useful in the treatment of a variety of cell proliferative disorders such as, for instance, benign prostate hyperplasia, familial adenomatosis, polyposis, neuro-fibromatosis, psoriasis, vascular smooth cell proliferation associated with atherosclerosis, pulmonary fibrosis, arthritis

glomerulonephritis and post-surgical stenosis and restenosis.

The compounds of the invention can be useful in the treatment of Alzheimer's disease, as suggested by the fact that cdk5 is involved in the phosphorylation of tau protein (J. Biochem., 117, 741-749, 1995).

The compounds of this invention, as modulators of apoptosis, may also be useful in the treatment of cancer, viral infections, prevention of AIDS development in HIV-infected individuals, autoimmune diseases and neurodegenerative disorders.

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The compounds of this invention may be useful in inhibiting tumor angiogenesis and metastasis.

The compounds of the invention are useful as cyclin dependent kinase (cdk) inhibitors and also as inhibitors of other protein kinases such as, for instance, protein kinase C in different isoforms, Met, PAK-4, PAK-5, ZC-1, STLK-2, DDR-2, Aurora 1, Aurora 2, Bub-1, PLK, Chk1, Chk2, HER2, raf1, MEK1, MAPK, EGF-R, PDGF-R, FGF-R, IGF-R, VEGF-R, PI3K, weel kinase, Src, Abl, Akt, ILK, MK-2, IKK-2, Cdc7, Nek, and thus be effective in the treatment of diseases associated with other protein kinases.

Several indazoles and aminoindazoles are known in the art as synthetic or chemical intermediates, as polymer stabilizers, as therapeutic agents and even as protein kinase inhibitors.

As an example, some alkylamino-indazoles are disclosed in US 28939 (reissue of US 3,133,081) by Smithkline Co., as endowed with muscle relaxant and analgesic activity; among them are 3-methylamino-5-trifluoromethyl-indazole and 3-diethylamino-5-trifluoromethyl-indazole.

Cyclic N,N'-urea derivatives bearing 3-aminoindazole groups are disclosed in Bioorg. Med. Chem. Lett. (1998), 8(7), 715-720 as HIV protease inhibitors.

Diaryl-urea derivatives useful in the treatment of diseases other than cancer are disclosed as p38 kinase inhibitors in WO 99/32111 by Bayer Co.; among the compounds specifically exemplified therein is N-[4-[(pyridyl-4-yl))oxy]phenyl]-N'-

5 [6-chloro-(indazol-3-yl)]-urea.

Imidazopyridine derivatives further substituted by aryl moieties, e.g. by indazolyl-aminocarbonyl-phenyl, are disclosed as platelet-activating factor (PAF) antagonists

in WO 91/17162 by Pfizer Ltd.

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Indazole compounds further substituted in position 3 by groups other than amino or derivatives thereof are disclosed in WO 01/02369 by Agouron Pharmaceuticals Inc., as possessing protein kinase inhibitory activity.

Mercapto-cyanoacryloylamino- or alkylthio-cyanoacryloyl-amino-heterocycles are discloses as being useful in the treatment of disorders associated with increased cell growth in US 5,714,514 by Hoechst.

1-Acylamino-3-(N-arylsulfonyl-N-alkoxyamino)-2-hydroxy-

propane derivatives, wherein the aryl moiety also comprises indazole groups, are disclosed as HIV aspartyl protease inhibitors in WO 99/65870 by Vertex Pharmaceuticals Inc.

Some other specific indazole derivatives are known as therapeutic agents: in particular, 3-[3-(morpholin-4-yl)propionylamino]-indazole, 3-(N,N,-diethylamino)-

propylamino-5-methoxy-indazole, 3-[(3-methyl)morpholin-4-yl]-propylamino-5-methoxy-indazole 3-(N,N,-diethylamino)-propylamino-5-methyl-indazole and 3-[(3-methyl)morpholin-4-yl]-propylamino-5-methyl-indazole are disclosed as possessing analgesic and anti-inflammatory activity [see US

4,751,302 and JP-A-60061569 by Asahi Chemical Industry]; 3[(2-hydroxyphenyl)carbonylamino]-indazole is disclosed as antimicrobial agent [see Pharmazie (1990), 45(6), 441-2].

Several other indazoles, mainly disclosed as chemical intermediates or for purposes other than therapeutic, e.g.

polymer stabilizers, bleaching agents, dyes and the like, are known in the art.

3-(ethoxycarbonylamino)-indazole Among them are: Chemical Abstracts 92(1980):215400]; 3-acetylamino-indazole 3-benzoylamino-indazole [see J. Orq. Chem. (1996), 8397-8401]; 3-butyrylamino-indazole, 61(24), 5 chlorophenyl)carbonylamino]-indazole, 3-[(4-methylphenyl) carbonylamino] indazole and 3 - [(3, 3 diphenyl) propionylamino] indazole [see Acta Chim. Huna. (1990),127(6), 795-802]; 3-[(3,5-dimethyl-isoxazol-4yl)carbonylamino]-indazole [see J. Heterocyl. Chem. (1974), 623-6]; 3-[(4-nitrophenyl)carbonylamino]-indazole 10 and 3-(phenylacetylamino)-indazole [see J. Chem. Perkin Trans. 1 (1982),(3), 759-66]; 3-[(2aminophenyl) carbonylamino] - indazole and 3-[(2nitrophenyl)carbonylamino]-indazole [Heterocyles (1996),15 2385-2396]; 43(11), 3-[(4-chloro-2-nitrophenyl)carbonylamino] - indazole, 3-[(2-amino-4-chlorophenyl) carbonylamino] indazole, 3-[(2-amino-5-chlorophenyl)carbonylamino]indazole 3-[(3-chloro-6-nitrophenyl)carbonylamino]and indazole [see Arch. Pharm. (1999), 332 (9), 317-320]; 20 (acetylamino) -5-amino-indazole [see US 3,316,207 by Farbwerke Hoechst A.G.]; 3-dimethylamino-5trfifluoromethyl-indazole [see DE-A-2458965 by Bayer A.G.]; 3-phenylamino-6-methyl-indazole, 3-phenylamino-, 3-(4chloro) phenylamino-, 3-(4-methyl)phenylamino-, 3~(3-25 methyl) phenylamino- and 3-(4-aminosulfonyl) phenylamino-5methyl-indazole [see Chemical Abstracts 78(1973):136158]; 3-[(1-hydroxy-2-methyl)-2-propyl]amino-6,7-dimethoxyindazole [see US 4,864,032 by Ortho Pharmaceutical Co.]. 3-phthalimido-indazole addition, and 4-chloro-3phthalimido-indazole 30 are disclosed as synthetic intermediates in the preparation of pharmaceuticals having analgesic and anti-inflammatory activity, in US 4,751,302 by Asahi Chemical Industry Co. Sulfonylaminoindazoles and, more particularly, long chain alkyloxyphenylsulfonylamino-indazoles are disclosed as cyan 35

dye forming compounds in JP-A-08022109, by Heisei.

Broad classes of pyrazole compounds useful as protein kinase inhibitors are also disclosed by Vertex Pharmaceuticals Inc. in a variety of patent applications such as WO 02/62789, WO 02/59112, WO 02/59111, WO 02/57259, WO 02/50066, WO 02/50065, WO 02/22608, WO 02/22607, WO 02/22606, WO 02/22605, WO 02/22604, WO 02/22603 and WO 02/22601.

Accordingly, the present invention provides a method for treating diseases caused by and/or associated with an altered protein kinase activity, by administering to a mammal in need thereof an effective amount of an aminoindazole represented by formula (I)

$$(R_1O)_m$$
 N
 N
 (I)

15 wherein

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R is selected from the group consisting of -NHR', -NR'R", -NHCOR', -NHCONR', -NHCONR'R", -NHSO $_2$ R' or -NHCOOR', wherein R' and R" are, each independently, a group optionally further substituted selected from straight or branched C_1 - C_6 alkyl, C_2 - C_6 alkenyl or alkynyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 6 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur; or R is a phthalimido group of formula (II) below

any R_1 , if present, is in position 5 or 6 of the indazole ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1:

5 or a pharmaceutically acceptable salt thereof.

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In a preferred embodiment of the method described above, the disease caused by and/or associated with an altered protein kinase activity is selected from the group consisting of cancer, cell proliferative disorders, Alzheimer's disease, viral infections, auto-immune diseases and neurodegenerative disorders.

Specific types of cancer that may be treated include carcinoma, squamous cell carcinoma, hematopoietic tumors of myeloid or lymphoid lineage, tumors of mesenchymal origin, tumors of the central and peripheral nervous system, melanoma, seminoma, teratocarcinoma, osteosarcoma, xeroderma pigmentosum, keratoxanthoma, thyroid follicular cancer and Kaposi's sarcoma.

In another preferred embodiment of the method described above, the cell proliferative disorder is selected from the group consisting of benign prostate hyperplasia, familial adenomatosis polyposis, neuro-fibromatosis, psoriasis, vascular smooth cell proliferation associated with atherosclerosis, pulmonary fibrosis, arthritis glomerulonephritis and post-surgical stenosis and restenosis.

In addition, the method object of the present invention, also provides tumor angiogenesis and metastasis inhibition. The present invention further provides an aminoindazole derivative represented by formula (I)

$$(R_1O)_{\overline{m}}$$
 N N N N

wherein

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R is selected from the group consisting of -NHR', -NR'R",
-NHCOR', -NHCONHR', -NHCONR'R", -NHSO₂R' or -NHCOOR',
wherein R' and R" are, each independently, a group
optionally further substituted selected from straight or
branched C₁-C₆ alkyl, C₂-C₆ alkenyl or alkynyl, C₃-C₆
cycloalkyl or cycloalkyl C₁-C₆ alkyl, aryl, aryl C₁-C₆ alkyl,
5 or 6 membered heterocyclyl or heterocyclyl C₁-C₆ alkyl
with from 1 to 3 heteroatoms selected among nitrogen,
oxygen or sulfur; or R is a phthalimido group of formula
(II) below

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any R_1 , if present, is in position 5 or 6 of the indazole ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1;

or a pharmaceutically acceptable salt thereof; with the provisos that:

- a) when R is -NHCOR' and m is 0, then R' is other than 20 methyl, n-propyl, benzyl, 2,2-diphenylethyl, 3,5-dimethyl-isoxazol-4-yl, 2-(morpholin-4-yl)ethyl, or phenyl optionally substituted by chloro, hydroxy, methyl, nitro or amino;
- b) when the indazole is substituted in position 5 or 6 by a
 25 methoxy group, then R is other than 3-(N,N-diethylamino) propylamino, 3-[(3-methyl) morpholin-4-yl] propylamino or 1-hydroxy-2-methyl-2-propylamino;
 c) the compound 3-phthalimido-indazole being excluded.
- 30 The compounds of formula (I), object of the present invention, may have asymmetric carbon atoms and may

therefore exist either as racemic admixtures or as individual optical isomers.

Accordingly, all the possible isomers and their admixtures and of both the metabolites and the pharmaceutically acceptable bio-precursors (otherwise referred to as prodrugs) of the compounds of formula (I), as well as any therapeutic method of treatment comprising them, are also within the scope of the present invention.

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- In the present description, unless otherwise indicated, with the term straight or branched C_1 - C_6 alkyl we intend a group such as, for instance, methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, n-pentyl, n-hexyl and the like.
- With the term straight or branched C_2 - C_6 alkenyl or alkynyl we intend an unsaturated hydrocarbon chain having a double or triple bond such as, for instance, vinyl, ethynyl, 1-propenyl, allyl, 1- or 2-propynyl, 1-, 2- or 3-butenyl, 1-, 2- or 3-butynyl, pentenyl, pentynyl, hexenyl, hexynyl and the like.

With the term C_3-C_6 cycloalkyl we intend a group such as, for instance, cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl.

With the term aryl we intend a mono-, bi- or poly- either carbocyclic as well as heterocyclic hydrocarbon with from 1 to 4 ring moieties, either fused or linked to each other by single bonds, wherein at least one of the carbocyclic or heterocyclic rings is aromatic.

Non limiting examples of aryl groups are, for instance, phenyl, indanyl, biphenyl, α - or β -naphthyl, fluorenyl, 9,10-dihydroanthracenyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolyl, imidazolyl, imidazopyridyl, 1,2-methylenedioxyphenyl, thiazolyl, isothiazolyl, pyrrolyl, pyrrolyl-phenyl, furyl, phenyl-furyl,

benzotetrahydrofuranyl, oxazolyl, isoxazolyl, pyrazolyl, chromenyl, thienyl, benzothienyl, isoindolinyl,

benzoimidazolyl, tetrazolyl, tetrazolylphenyl, pyrrolidinyl-tetrazolyl, isoindolinyl-phenyl, quinolinyl, isoquinolinyl, 2,6-diphenyl-pyridyl, quinoxalinyl, pyrazinyl, phenyl-quinolinyl, benzofurazanyl, 1,2,3-triazolyl, 1-phenyl-1,2,3-triazolyl, and the like.

With the term 5 or 6 membered heterocyclyl, hence encompassing aromatic heterocyclic groups also referred to as aryl groups, we further intend a saturated or partially unsaturated 5 or 6 membered carbocycle wherein one or more carbon atoms are replaced by 1 to 3 heteroatoms such as nitrogen, oxygen and sulfur.

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Examples of 5 or 6 membered heterocyclyl groups, optionally benzocondensed or further substituted, are 1,3-dioxolane, pyran, pyrrolidine, pyrroline, imidazolidine, pyrazolidine, pyrazoline, piperidine, piperazine, morpholine, tetrahydrofuran, and the like.

According to the above meanings provided to R1, R' and, R", any of the above groups may be further optionally 20 substituted in any of the free positions by one or more groups, for instance 1 to 6 groups, selected from: halogen, nitro, oxo groups (=0), carboxy, cyano, perfluorinated alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl, amino groups and derivatives thereof such as, for instance, alkylamino, dialkylamino, arylamino, 25 diarylamino, ureido, alkylureido or arylureido; carbonylamino groups and derivatives thereof such as, for formylamino, instance, alkylcarbonylamino, alkenylcarbonylamino, arylcarbonylamino, alkoxycarbonylamino; hydroxy groups and derivatives thereof 30 such as, for instance, alkoxy, aryloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkenyloxy or alkylideneaminooxy; carbonyl groups and derivatives thereof such as, instance, alkylcarbonyl, arylcarbonyl, alkoxycarbonyl, aryloxycarbonyl, cycloalkyloxycarbonyl, aminocarbonyl, 35 alkylaminocarbonyl, dialkylaminocarbonyl; sulfurated

derivatives such as, for instance, alkylthio, arylthio, alkylsulfonyl, arylsulfonyl, alkylsulfinyl, arylsulfinyl, arylsulfonyloxy, aminosulfonyl, alkylaminosulfonyl or dialkylaminosulfonyl.

5 In their turn, whenever appropriate, each of the above groups may be further substituted by one or more of the aforementioned groups.

Among these latter groups and unless otherwise specified in the present description, with the term halogen atom we

intend a fluorine, chlorine, bromine or iodine atom.

With the term perfluorinated alkyl we intend a straight or branched $C_1\text{--}C_6$ alkyl group as above defined, wherein more than one hydrogen atom are replaced by fluorine atoms. Example of perfluorinated alkyl groups are, for instance,

trifluoromethyl, 2,2,2-trifluoroethyl, 1,2-difluoroethyl, 1,1,1,3,3,3-hexafluoropropyl-2-yl and the like.

From all of the above, it is clear to the skilled man that any group which name has been identified as a composite name such as, for instance, cycloalkylalkyl, arylalkyl,

heterocyclylalkyl, alkoxy, alkylthio, aryloxy, arylalkoxy, heterocyclyloxy, heterocyclylalkoxy, alkylcarbonyloxy and the like, have to be intended as conventionally construed from the parts to which they derive.

As an example, the term heterocyclyl-alkyl stands for an alkyl group being further substituted by a heterocyclyl group, as above defined.

Pharmaceutically acceptable salts of the compounds of formula (I) are the acid addition salts with inorganic or organic, e.g. nitric, hydrochloric, hydrobromic, sulfuric, perchloric, phosphoric, acetic, trifluoroacetic, propionic, glycolic, lactic, oxalic, malonic, malic, maleic, tartaric, citric, benzoic, cinnamic, mandelic, methanesulfonic, isethionic and salicylic acid, as well as the salts with inorganic or organic bases, e.g. alkali or alkaline-earth metals, especially sodium, potassium, calcium or magnesium

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hydroxides, carbonates or bicarbonates, acyclic or cyclic amines, preferably methylamine, ethylamine, diethylamine, triethylamine or piperidine.

5 From all of the above it is clear to the skilled man that, within the compounds of formula (I), when m is 0 there are no $-OR_1$ groups, hence no R_1 groups attached to the indazole skeleton through the oxygen atom. In such a case, therefore, the positions 5 or 6 according to the numbering system reported below, are unsubstituted (or hydrogen substituted).

$$(R_1O)_{\overline{m}} = \begin{cases} R \\ N \\ N \end{cases}$$

$$(I)$$

On the other hand, when m is 1, one $-OR_1$ group (hence R_1) is present in any one of the positions 5 or 6 of the indazole ring.

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A first class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a group -NHR' or -NR'R" and R', R", R_1 and m are as above defined.

More preferred, within this class, are the compounds wherein m is 1 and R_1 is in any one of the positions 5 or 6 of the indazole ring.

Even more preferred are the compounds wherein R_1 , R' and R'' are selected, each independently, from C_2 - C_6 alkenyl, C_3 - C_6 alkynyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur.

Another class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a group -NHCOR' and R', R_1 and m are as above defined.

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More preferred, within this class, are the compounds wherein m is 1 and R_1 is in any one of the positions 5 or 6 of the indazole ring.

Even more preferred are the compounds wherein R_1 and R' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.

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Another class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a group -NHCONHR' or -NHCONR'R", and R', R", R_1 and m are as above defined.

More preferred, within this class, are the compounds wherein m is 1 and R_1 is in any one of the positions 5 or 6 of the indazole ring.

Even more preferred are the compounds wherein R_1 , R' and R'' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with

from 1 to 3 heteroatoms selected among nitrogen, oxygen and

sulfur.

Another class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a group $-NHSO_2R'$ and R', R_1 and m are as above defined.

More preferred, within this class, are the compounds wherein m is 1 and $R_{\rm 1}$ is in any one of the positions 5 or 6

30 of the indazole ring.

Even more preferred are the compounds wherein R_1 and R' are selected, each independently, from C_1-C_6 alkyl, C_3-C_6 cycloalkyl or cycloalkyl C_1-C_6 alkyl, aryl, aryl C_1-C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1-C_6 alkyl with

35 from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.

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Another class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a group -NHCOOR' and R', R_1 and m are as above defined.

More preferred, within this class, are the compounds wherein m is 1 and R_1 is in any one of the positions 5 or 6 of the indazole ring.

Even more preferred are the compounds wherein R_1 and R' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.

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Another class of preferred compounds of the invention is represented by the compounds of formula (I) wherein R is a phthalimido group of formula (II) and R_1 and m are as above defined.

More preferred, within this class, are the compounds wherein m is 1 and R_1 is in any one of the positions 5 or 6 of the indazole ring.

Even more preferred are the compounds wherein R_1 is selected from C_2 - C_6 alkenyl, C_3 - C_6 alkynyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur.

Specific examples of compounds of formula (I), optionally in the form of pharmaceutically acceptable salts, are reported in the experimental section.

As set forth above, it is a further object of the present invention a process for preparing the aminoindazole derivatives of formula (I).

Therefore, the compounds of formula (I) and the pharmaceutically acceptable salts thereof wherein R is as

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above defined but other than a phthalimido group of formula (II), may be obtained by a process comprising:

a) reacting under acidic conditions a 2-aminobenzonitrile derivative of formula (III)

$$(R''O)_{m}$$
 (III)

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wherein m is as above defined and, if present, R''' is a methyl or benzyl group; with sodium nitrite in the presence of stannous chloride, so as to obtain a compound of formula (IV)

$$(R'''O)_{m} \xrightarrow{NH_{2}} N \qquad (IV)$$

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b) reacting the compound of formula (IV) with phthalic anhydride so as to obtain a compound of formula (V)

c) reacting the compound of formula (V) with a suitable ether cleaving agent so as to obtain the corresponding hydroxy derivative of formula (VI)

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$$(HO)_{m} \xrightarrow{\hspace*{1cm} N \hspace*{1cm} N \hspace*{1cm} (VI)}$$

d) reacting the compound of formula (VI) with a suitable silylating agent $(R^{iv})_3SiZ$ wherein each R^{iv} is, the same or different, a straight or branched C_1-C_4 alkyl group, and Z is a halogen atom, so as to obtain a compound of formula (VII)

e) reacting the compound of formula (VII) with a suitable indazole nitrogen protecting agent or, alternatively,
 supporting it onto a suitable polymeric resin so as to obtain a compound of formula (VIII)

$$[(R^{iv})_3SiO]_{\overline{m}}$$
 (VIII)

wherein Q is the above protecting group or represents the supporting resin;

f) reacting the compound of formula (VIII) with hydrazine monohydrate so as to get the compound of formula (IX)

and reacting the compound of formula (IX) according to any one of the following steps g.1) or g.2);

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g.1) with a suitable reagent of formula R'-Z (X), R'-COZ (XI), R'-NCO (XII), R'-SO₂Z (XIII) or R'OCOZ (XIV), wherein R' is as above defined and Z represents a halogen atom or a suitable leaving group, so as to get the corresponding compound of formula (XV)

$$[(R^{iv})_3SiO]_{\overline{m}} \qquad (XV)$$

wherein R is a group -NHR', -NHCOR', -NHCONHR', -NHSO $_2$ R' or -NHCOOR' and, if desired, reacting the compounds having R as a -NHR' or -NHCONHR' group with a compound of formula R"Z (XVI)

wherein R" and Z are as above defined, so as to get the compounds of formula (XV) wherein R is a group -NR'R" or -NHCONR'R";

g.2) with a compound of formula (XVII)

R'R"NH (XVII)

wherein R' and R" are as above defined, in the presence of 4-nitrophenyl chloroformate, so as to obtain the corresponding compound of formula (XV) wherein R is a group -NHCONR'R";

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h) reacting any of the above compounds of formula (XV) with tetrabutylammonium fluoride so as to get the compound of formula (XVIII)

5 i) reacting the compound of formula (XVIII) with a derivative of formula

$$R_1-Z$$
 (XIX)

wherein R_1 is as above defined and Z is a halogen atom, a suitable leaving group or hydroxy, so as to obtain the compound of formula (XX)

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$$(R_1O)_{\overline{m}}$$
 N
 Q
 (XX)

j) deprotecting the compound of formula (XX) or, alternatively, cleaving the polymeric resin so as to get the desired compound of formula (I) and, whenever desired, converting it into another compound of formula (I) and/or into a pharmaceutically acceptable salt thereof.

From all of the above, it is clear to the person skilled in the art that if a compound of formula (I), prepared according to the above process, is obtained as an admixture of isomers, their separation into the single isomers of formula (I), carried out according to conventional techniques, is still within the scope of the present invention.

25 Likewise, the conversion into the free compound (I) of a corresponding salt thereof, according to well-known

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procedures in the art, is still within the scope of the invention.

According to step a) of the process, a compound of formula (III), preferably 2-amino-4-methoxy-benzonitrile or 2-amino-5-benzyloxy-benzonitrile, is reacted with sodium nitrite. The diazonium salt is reduced in the presence of stannous chloride under acidic conditions, e.g. hydrochloric acid or sulfuric acid.

The reaction may be carried out in a mixture of water and a suitable solvent such as, for instance, methanol, ethanol and the like, at a temperature ranging from about 0°C to about 10°C.

The reaction may be performed by adding the sodium nitrite to a solution of the compound of formula (III) in concentrated hydrochloric acid, whereas stirring is maintained for a time of about 1 hour to 3 hours.

Then the suspension can be transferred dropwise into a solution of stannous chloride in concentrated hydrochloric acid and cooled at about 0°C, whereas stirring is maintained for a suitable time, for instance from about 4 hours to about 6 hours.

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As per step b) of the process, the compound of formula (IV) 25 reacted with phthalic anhydride according conventional methods for preparing phthalimido derivatives. The reaction may be carried out in a variety of solvents including chloroform, acetonitrile, tetrahydrofuran, dimethylformamide, dimethyl acetamide and the like; preferably with acetonitrile. 30 In this respect, the phthalic anhydride is added to a solution of the compound of formula (V). The temperature is then brought to a suitable value, for instance from about 70° to about 100°C; preferably at 80°C. Stirring is carried out for a suitable time varying from about 1 hour to about 4 hours. 35

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According to step c) of the process, the compound of formula (V) is converted into the corresponding hydroxy derivative through reaction with a suitable ether cleaving agent such as, for instance, pyridinium hydrochloride salt, iodotrimethylsilane or boron tribromide. The reaction may be carried out in neat pyridinium chloride or, with the other reagents, in dichloromethane or chloroform. Preferably, neat pyridinium chloride is used.

In this respect, the mixture of pyridinium chloride and of the compound of formula (V) is brought to a suitable temperature of from about 180°C to about 200°C whereas stirring is carried out for a time varying from about 1 hour to about 3 hours.

According to step d) of the process, the compound of formula (VI) is reacted with a silyl derivative, preferably tert-butyl-dimethyl-silyl chloride (TBDMSCl), so as to get the corresponding silyl ether derivative. The reaction may be carried out in presence of a suitable base such as, for instance, 1,5-diazabiciclo[4.3.0]non-5-ene (DBN) or, more preferably, 1,8-diazabiciclo[5.4.0]undec-7-ene (DBU).

respect, tert-butyl-dimethyl-silyl chloride (TBDMSCl) is added to a solution of the compound of formula (VI). The reaction may be carried out in a variety of solvents dichloromethane, such as acetonitrile, dimethylformamide and the like; dichloromethane preferred. The temperature may vary from about 20° to about 40°C whilst stirring is maintained for a time of about 1 hour to 4 hours.

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According to step e) of the process, the indazole derivative of formula (VII) thus obtained is either protected at the indazole nitrogen atom or, alternatively, is supported onto a suitable polymeric resin.

35 The reaction of protection may be carried out according to conventional methods well known in the art, for instance by

using suitable nitrogen protecting groups such as, for instance, tert-butoxy-carbonyl (BOC) group.

At this same position, in the alternative, the indazole of formula (VII) may be conveniently anchored to an inert polymeric support such as, for instance, the 2-chlorotrityl chloride resin, the trityl chloride resin, the por the bromo-4carbonate Wang resin nitrophenyl polystyrene, which are all methoxyphenyl) methyl conventionally known in this field.

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10 Clearly, this same option is particularly advantageous for preparing the compounds of formula (I) under solid-phase-synthesis (SPS) conditions, which are typically adopted when preparing libraries of compounds according to combinatorial chemistry techniques, for instance as reported below.

The reaction with the resin is carried out in the presence of a slight excess of a suitable base, for instance an amine, e.g. diisopropylethylamine (DIPEA), triethylamine (TEA), 1,8-diazabiciclo[5.4.0]undec-7-ene (DBU) or 2-tert-

butylimino-2-diethylamino-1,3-dimethylperhydro-1,3,2-diazaphosphorine, in a suitable solvent, for instance
dichloromethane, chloroform, tetrahydrofuran,
dimethylformamide, dimethylacetamide and the like.

Preferably, the reaction is carried out in dichloromethane at a temperature of about 20°C.

The reaction may be performed by adding to a suspension of the resin, the base and the compound of formula (VII), and by stirring at a temperature of about 20°C for a suitable time, for instance up to 24 hours.

According to step f) of the process, the derivative of formula (VIII) is treated with hydrazine monohydrate so as to cleave the phthalimido group.

The reaction is preferably carried out by using a large excess, for instance up to 10 equivalents, of hydrazine hydrate or monohydrate, in the presence of suitable

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solvents such as, for instance, halogenated hydrocarbons, lower alcohols and admixtures thereof.

Preferred solvents are dichloromethane, ethanol and admixtures thereof.

5 The reaction may be carried out by adding hydrazine to a solution of the compound of formula (VIII) and by stirring for a suitable time at the temperature ranging from about 20°to about 45°C. Preferably, the reaction mixture is maintained under stirring at about 40°C for about 16 hours.

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According to any one of steps g.1) or g.2) of the process, the amino derivative of formula (IX) is reacted with a suitable reagent of formula from (X) to (XIV), or with a compound of formula (XVII), according to well-known

15 methods.

Typically, the compound of formula (IX) may be reacted with: a compound of formula (X) so as to get corresponding -NHR' derivative wherein R' is as above a compound of formula (XI) get to defined; corresponding -NHCOR' acyl derivative; a compound of formula (XII) to get the corresponding -NHCONHR' ureido derivative; a compound of formula (XIII) to get corresponding $-NHSO_2R'$ derivative; a compound of formula the corresponding -NHCOOR' derivative. get

Alternatively, the compound of formula (IX) may be reacted with a compound of formula R'R"NH (XVII), in the presence of 4-nitrophenyl chloroformate to get the corresponding ureido -NHCONR'R" derivative.

Any one of the above reactions is carried out according to conventional methods normally used in the preparation of functionalized amino derivatives, by starting from the corresponding amine.

Preferably, within the compounds of formula (X), Z represents a suitable leaving group, for instance, iodine bromine or boronic acid; within the compounds of formula

(XI) (XIII) or (XIV), Z represents a halogen atom and, even more preferably, a chlorine atom.

In addition to the above, it is clear to the skilled man that, whenever desired, any of the above compounds of formula (XV) thus prepared and wherein R represents a group -NHR' or -NHCONHR' may be further converted into the corresponding derivative having R as a -NR'R" or -NHCONR'R" group, respectively.

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Also these reactions are performed according to conventional methods by reacting the proper intermediate compound of formula (XV) with a suitable derivative of formula (XVI).

In this respect, the compound of formula (IX) is dissolved dichloromethane, such as solvent suitable in dimethylformamide, tetrahydrofuran, dioxane or the like, triethylamine, as base such suitable sodium carbonate or the like diisopropylethylamine, The compound of general formula (XI), (XIII) (XIV) is then added and the mixture stirred for a time of about 2 hours to about 15 hours, at a temperature ranging from about 20°C to about 80°C. When using an isocyanate of general formula (XII), the reaction conditions are the same as above except that the base may not be required. In all catalyst reactions, a suitable of these dimethylamino pyridine may be optionally used.

Substantially analogous procedures may be applied when the compound of formula (XII) is reacted with a compound of formula (X) to give the corresponding functionalized amino derivative of formula (XIV), according to well known methods.

As an example, the compound of formula (IX) may be reacted with a derivative of formula (X) wherein Z is halogen, for instance iodine or bromine, and R' is an arylalkyl group such as, for instance, a benzyl group, by working according to conventional methods.

On the other side, the compound of formula (IX) may be reacted with a derivative of formula (X) wherein Z is a bromine atom and R' is an aryl group, in presence of a for as, such catalyst palladium tris(dibenzylideneacetone)dipalladium, palladium acetate or 1,1'-bis(diphenylphosphino)ferrocenedichloropalladium, adding a suitable base, for instance potassium tertbutoxide, cesium carbonate or the like, and a palladium ligand such as 2,2'-bis(diphenylphosphino)-1,1'-binaphthyl, tri-n-butylphosphine, tri-o-tolylphosphine, to obtain the butylphosphine and the so as like, corresponding derivative of formula (XV).

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In this respect, the compound of formula (IX) is suspended in a suitable anhydrous solvent such as toluene, N-methyl-2-pyrrolidone, dimethoxyethane, dioxane and the like, and the compound of formula (X), the catalyst, the base and the ligand are added therein. The suspension is then brought to a suitable temperature varying from about 50°C to about 100°C whereas stirring is maintained for a time of about 8 hours to 5 hours. The reaction is carried out under inert atmosphere.

According to step h) of the process, the compound of formula (XV) is then reacted with tetrabutylammonium fluoride so as to get the corresponding hydroxy derivative of formula (XVIII). The compound (XV) may be thus suspended in an anhydrous solvent such as dioxane, tetrahydrofuran or the like, and the solution of tetrabutylammonium fluoride in the suitable solvent is added. The solution is stirred for about 2 hours to about 16 hours, at a temperature ranging from about 20°C to about 50°C.

The product of formula (XVIII) thus obtained may be further reacted according to step i) of the process, with a suitable derivative of formula (XIX).

More in particular, the reaction with a compound of formula (XIX) wherein Z is a halogen atom such as bromine or chlorine or a suitable leaving group, is carried out in the presence of a base such as, for instance, sodium hydroxide, sodium hydride, 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-1,3,2-diaza-phosphorine or more preferably cesium carbonate, so as to get the corresponding ether derivative of formula (XX).

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In this respect, the compound of formula (XVIII) is suspended in a suitable solvent such as dimethylacetamide, tetrahydrofuran, dioxane or more preferably dimethylformamide, and the base is added.

The mixture is stirred for about 5 hours to about 36 hours at a temperature ranging from about 20°C to about 80°C.

Alternatively, these same compounds of formula (XX) may be obtained by reacting the derivative of formula (XVIII) with a compound of formula (XIX) wherein Z is hydroxy, under Mitsunobu operative conditions, e.g. in the presence of triphenylphosphine and diisopropyl azodicarboxylate.

diisopropyl triphenylphosphine, respect, this 20 azodicarboxylate and the compound of general formula (XIX) such suitable solvent a in dissolved are tetrahydrofuran, dioxane or the like, and the solution is transferred into the mixture of the compound of formula (XVIII) being dissolved in a suitable solvent such as 25 tetrahydrofuran, dioxane or the like, in the presence of a triethylamine as such base suitable disopropylethylamine. The mixture is stirred for a time varying from about 2 hours to about 15 hours, at a temperature ranging from 0°C to 20°C. 30

Finally, according to step j) of the process, the compound of formula (XX) is deprotected at the indazole nitrogen atom by working, according to conventional method, in acidic conditions. The compound of formula (XX) is suspended in a suitable solvent such as methyl alcohol,

ethyl alcohol or the like, and a concentrated solution of hydrochloric acid is added. The mixture is stirred for a suitable time of about 5 hours to about 15 hours at a temperature ranging from about 20°C to about 40°C; preferably at about 20°C. Alternatively, this same intermediate compound of formula (XX) is cleaved from the resin to which it is supported.

Resin cleavage may be carried out, for instance, in the presence of trifluoroacetic acid so as to yield the desired compound of formula (I). The resin is suspended in a solution of 5-95% of trifluoroacetic acid in dichloromethane and the mixture is stirred at about 20°C for a time varying from about 5 minutes to about 3 hours.

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- 15 From all of the above, it is clear to the skilled man that the compounds of formula (I) wherein R₁ and m are as above defined and R is a phthalimido group of formula (II), and the pharmaceutically acceptable salts thereof, may be prepared according to an analogous process by reacting the compound of formula (VIII) as per steps h), i) and j) of the process, so as to get the desired derivative of formula (I) bearing a phthalimido group (II) in place of the R group.
- 25 Preferably, when preparing the compounds of formula (I) wherein R is a sulfonamido (-NHSO₂R') group, the above synthetic pathway can be conveniently modified by changing the order of the deprotection steps.
- More in particular, the compounds of formula (I) wherein R is a -NHSO₂R' group may be preferably prepared by reacting the intermediate derivatives of formula (VIII), being obtained according to step (e) of the process, with tetrabutylammonium fluoride as per step (h) of the process, so as to obtain the compounds of formula (XVIII) wherein R is a phthalimido group.

The thus obtained compounds of formula (XVIII) are then reacted with a derivative of formula (XIX) according to step (i) of the process, so as to get the compounds of formula (XX) wherein R is a phthalimido group.

The above compounds of formula (XX) are then reacted with 5 hydrazine monohydrate, according to step (f) of the process, so as to obtain the compounds of formula (XX) wherein R is $-NH_2$.

Finally, the above compounds of formula (XX) are then reacted with a suitable derivative of formula (XIII), as step (g.1) of the process, so as to corresponding sulphonamido derivatives of formula (XX) wherein R represents the given -NHSO₂R' group, which are further deprotected or cleaved from the resin according to step (j) of the process. 15

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When preparing the compounds of formula (I) according to any variant of the process, which are all to be intended as within the scope of the present invention, optional functional groups within both the starting materials, the reagents or the intermediates thereof, which could give to unwanted side reactions, need to be properly protected according to conventional techniques.

Likewise, the conversion of these latter into the free deprotected compounds may be carried out according to known 25 procedures.

Pharmaceutically acceptable salts of the compounds formula (I) or, alternatively, their free compounds from salts thereof, my be all obtained according to 30 conventional methods.

The compounds of formula (III) are known or easily prepared 2-amino-4according to known methods. As an example, methoxy-benzonitrile may be prepared by working as 35 described in EP-A-257583 in the name of Shionogi & Co; 2amino-5-benzyloxy-benzonitrile may be prepared as described in J. Heterocycl. Chem. (1972), 9(4), 759-73.

If not commercially available per se, all of the compounds of formula (X), (XI), (XII), (XIII), (XIV), (XVI), (XVII) and (XIX) are known or easily prepared according to well-known methods.

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Likewise, any reagent of the present process comprising the silyl derivative $(R^{iv})_3 SiZ$ as well as the polymeric resin are commercially available or readily preparable from commercially available sources.

As formerly indicated, the compounds of formula (I) of the invention were conveniently prepared according to combinatorial chemistry techniques widely known in the art, by accomplishing the aforementioned reactions between the several intermediates in a serial manner and by working under SPS conditions.

All of the preferred compounds of the invention, whenever appropriate in the form of pharmaceutically acceptable salts, are herewith conveniently indicated and defined as products by process, that is as products of formula (I) which are obtainable, for instance through a given process.

Therefore, herewith provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXa)

with each one of the compounds of formula (X), as set forth in table I, so as to obtain a plurality of compounds of formula (XVa)

by then reacting each of the derivatives of formula (XVa) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry

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technique as per the above process, by first reacting the compound of formula (IXb)

$$(tBu)(Me)_2Si O N (IXb)$$

with each one of the compounds of formula (X), as set forth in table I, so as to obtain a plurality of compounds of formula (XVa)

by then reacting each of the derivatives of formula (XVb) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of

formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

Also, provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXa)

10 with each one of the compounds of formula (XI), as set forth in table IV, so as to obtain a plurality of compounds of formula (XVc)

by then reacting each of the derivatives of formula (XVc) with tetrabutylammonium fluoride, as per step h) of the process, and then each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

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20 Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXb)

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$$(tBu)(Me)_2Si \underbrace{\qquad \qquad NN}_{Q} \qquad (IXb)$$

with each one of the compounds of formula (XI), as set forth in table IV, so as to obtain a plurality of compounds of formula (XVd)

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by then reacting each of the derivatives of formula (XVd) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II and III, and by subsequently operating as per step j) of the process

Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXa)

with each one of the compounds of formula (XII), as set forth in table V, so as to obtain a plurality of compounds of formula (XVe)

by then reacting each of the derivatives of formula (XVe) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXb)

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$$(tBu)(Me)_2Si Q (IXb)$$

with each one of the compounds of formula (XII), as set forth in table V, so as to obtain a plurality of compounds of formula (XVf)

by then reacting each of the derivatives of formula (XVf) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXa)

with each one of the compounds of formula (XIII), as set forth in table VI, so as to obtain a plurality of compounds of formula (XVq)

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by then reacting each of the derivatives of formula (XVg) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

Also provided are novel compounds of the invention and the pharmaceutically acceptable salts thereof which are obtainable, for instance through a combinatorial chemistry technique as per the above process, by first reacting the compound of formula (IXb)

$$(tBu)(Me)_2Si \underbrace{\qquad \qquad NN}_{Q} \qquad (IXb)$$

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with each one of the compounds of formula (XIII), as set forth in table VI, so as to obtain a plurality of compounds of formula (XVh)

$$(tBu)(Me)_2Si Q XVh)$$

by then reacting each of the derivatives of formula (XVh) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

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Table I
Compounds of formula R'-Z (X)

1.	(1-bromoethyl)benzene
2.	alpha-bromo-m-xylene
3.	cinnamyl bromide
4.	3,4-(ethylenedioxy)phenacyl bromide
5.	2-bromo-1-(4-chlorophenyl)-2-phenylethan-1-one
6.	2-benzoyl-2-bromoacetanilide
7.	alpha-bromo-4-(1-pyrrolidino)acetophenone
8.	ethyl 2-bromobutyrate

15 Table II

Compounds of formula R_1 -Z (XIX) wherein Z is bromine

14.	2-fluorobenzyl bromide
	2,6-difluorobenzyl bromide
	2-chlorobenzyl bromide
	4-chlorophenacyl bromide
	2-cyanobenzyl bromide
	4-nitrobenzyl bromide
	methyl 2-bromobutyrate
21.	3,5-difluorobenzyl bromide
22.	2,4-bis(trifluoromethyl)benzyl bromide
	2-bromo-n-phenylpropionamide
24.	methyl alpha-bromophenylacetate
	2-(trifluoromethyl)benzyl bromide
	3-bromocyclohexene
	1-bromo-2-fluoroethane
28.	1-bromo-3-fluoropropane
29.	3,4-dichlorobenzyl bromide
30.	3,4-dichlorobenzyl bromide
	2-(bromomethyl)anthraquinone
	4-bromo-2-fluorobenzyl bromide
	4-fluoro-2-(trifluoromethyl)benzyl
	bromide
	2,3,6-trifluorobenzyl bromide
	2,4,5-trifluorobenzyl bromide
	3-(trifluoromethoxy)benzyl bromide
37.	4-(trifluoromethyl)phenacyl bromide
20	3-(bromomethyl)-5-
	chlorobenzo[b] thiophene
	2-(difluoromethoxy)benzyl bromide
	1-bromo-2-butyne 1-bromo-2-pentyne
	(+/-)-3-bromo-1-phenyl-2-pyrrolidinone
	alpha-bromo-4-(1-
	pyrrolidino) acetophenone
	benzyl 2-bromoethyl ether
	3,5-dimethoxybenzyl bromide
	4-(bromomethyl)-3,5-dimethylisoxazole

Table III

Compounds of formula R_1 -Z (XIX) wherein Z is hydroxy

1.	3-methylbenzyl alcohol
2.	cyclopentanol
3.	3-methoxybenzyl alcohol
4.	methanol
5.	4-fluoro-1-butanol
6.	4-phenyl-2-butanol
7.	3-dimethylamino-1-propanol

8.	(2-hydroxyethyl)cyclopropane
	cyclopentanemethanol
10.	1,2,3,6-tetrahydrobenzylalcohol
	2-(3-thienyl)ethanol
12.	6-methyl-2-heptanol
13.	1-methyl-2-pyrrolidineethanol
	2-methyl-1-propanol
15.	1-(2-hydroxyethyl)pyrrolidine
	5-benzyloxy-1-pentanol
17.	1-hexanol
18.	4-methyl-5-thiazoleethanol
	3-butyn-1-ol
20.	n-(2-hydroxyethyl)piperidine
	tetrahydrofurfuryl alcohol
22.	4'-(2-hydroxyethoxy)acetanilide
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Table IV Compounds of formula R'COZ (XI)

1. benzoyl chloride 2. 1,3-benzodioxole-5-carbonyl chloride 3. 1-naphthoyl chloride 4. 2-furoyl chloride 5. 4-dimethylamino-benzoyl chloride 6. 4-(trifluoromethyl) benzoyl chloride 7. 3,5-dichlorobenzoyl chloride 8. benzyloxyacetyl chloride 9. 4-tert-butylbenzoyl chloride 10. 3,4-dimethoxybenzoyl chloride 11. 2-fluorobenzoyl chloride 12. 4-(trifluoromethoxy) benzoyl chloride 13. 1-acetylisonipecotoyl chloride 14. 2-phenoxypropionyl chloride 15. 4-tert-butylphenoxyacetyl chloride 16. methoxyacetyl chloride 17. hippuryl acid chloride 18. 4-bromobenzoyl chloride 19. 4-fluorobenzoyl chloride 20. 4-n-butoxybenzoyl chloride 21. 3-chloro-4-fluorobenzoyl chloride 22. 2-ethoxy-1-naphthoyl chloride 23. 3-chlorothiophene-2-carbonyl chloride 24. chloride 25. 4-ethylbenzoyl chloride 26. 2-n-propyl-n-valeroyl chloride 27. 3,5-dimethoxybenzoyl chloride		
3.1-naphthoyl chloride 4.2-furoyl chloride 5.4-dimethylamino-benzoyl chloride 6.4-(trifluoromethyl)benzoyl chloride 7.3,5-dichlorobenzoyl chloride 8.benzyloxyacetyl chloride 9.4-tert-butylbenzoyl chloride 10.3,4-dimethoxybenzoyl chloride 11.2-fluorobenzoyl chloride 12.4-(trifluoromethoxy)benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 23.5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	1.	benzoyl chloride
4.2-furoyl chloride 5.4-dimethylamino-benzoyl chloride 6.4-(trifluoromethyl)benzoyl chloride 7.3,5-dichlorobenzoyl chloride 8.benzyloxyacetyl chloride 9.4-tert-butylbenzoyl chloride 10.3,4-dimethoxybenzoyl chloride 11.2-fluorobenzoyl chloride 12.4-(trifluoromethoxy)benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 23.5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	2.	1,3-benzodioxole-5-carbonyl chloride
5.4-dimethylamino-benzoyl chloride 6.4-(trifluoromethyl)benzoyl chloride 7.3,5-dichlorobenzoyl chloride 8.benzyloxyacetyl chloride 9.4-tert-butylbenzoyl chloride 10.3,4-dimethoxybenzoyl chloride 11.2-fluorobenzoyl chloride 12.4-(trifluoromethoxy)benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 23.5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride		
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7. 3,5-dichlorobenzoyl chloride 8. benzyloxyacetyl chloride 9. 4-tert-butylbenzoyl chloride 10. 3,4-dimethoxybenzoyl chloride 11. 2-fluorobenzoyl chloride 12. 4-(trifluoromethoxy)benzoyl chloride 13. 1-acetylisonipecotoyl chloride 14. 2-phenoxypropionyl chloride 15. 4-tert-butylphenoxyacetyl chloride 16. methoxyacetyl chloride 17. hippuryl acid chloride 18. 4-bromobenzoyl chloride 19. 4-fluorobenzoyl chloride 20. 4-n-butoxybenzoyl chloride 21. 3-chloro-4-fluorobenzoyl chloride 22. 2-ethoxy-1-naphthoyl chloride 23. 3-chlorothiophene-2-carbonyl chloride 24. chloride 25. 4-ethylbenzoyl chloride 26. 2-n-propyl-n-valeroyl chloride	5.	4-dimethylamino-benzoyl chloride
8. benzyloxyacetyl chloride 9. 4-tert-butylbenzoyl chloride 10. 3,4-dimethoxybenzoyl chloride 11. 2-fluorobenzoyl chloride 12. 4-(trifluoromethoxy)benzoyl chloride 13. 1-acetylisonipecotoyl chloride 14. 2-phenoxypropionyl chloride 15. 4-tert-butylphenoxyacetyl chloride 16. methoxyacetyl chloride 17. hippuryl acid chloride 18. 4-bromobenzoyl chloride 19. 4-fluorobenzoyl chloride 20. 4-n-butoxybenzoyl chloride 21. 3-chloro-4-fluorobenzoyl chloride 22. 2-ethoxy-1-naphthoyl chloride 23. 3-chlorothiophene-2-carbonyl chloride 24. chloride 25. 4-ethylbenzoyl chloride 26. 2-n-propyl-n-valeroyl chloride	6.	4-(trifluoromethyl)benzoyl chloride
9.4-tert-butylbenzoyl chloride 10.3,4-dimethoxybenzoyl chloride 11.2-fluorobenzoyl chloride 12.4-(trifluoromethoxy)benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 23.5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride		
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11.2-fluorobenzoyl chloride 12.4-(trifluoromethoxy)benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	9.	4-tert-butylbenzoyl chloride
12.4-(trifluoromethoxy) benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	10.	3,4-dimethoxybenzoyl chloride
12.4-(trifluoromethoxy) benzoyl chloride 13.1-acetylisonipecotoyl chloride 14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	11.	2-fluorobenzoyl chloride
14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	12.	4-(trifluoromethoxy)benzoyl chloride
14.2-phenoxypropionyl chloride 15.4-tert-butylphenoxyacetyl chloride 16.methoxyacetyl chloride 17.hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	13.	1-acetylisonipecotoyl chloride
16. methoxyacetyl chloride 17. hippuryl acid chloride 18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24. chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	14.	2-phenoxypropionyl chloride
17. hippuryl acid chloride 18. 4-bromobenzoyl chloride 19. 4-fluorobenzoyl chloride 20. 4-n-butoxybenzoyl chloride 21. 3-chloro-4-fluorobenzoyl chloride 22. 2-ethoxy-1-naphthoyl chloride 23. 3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24. chloride 25. 4-ethylbenzoyl chloride 26. 2-n-propyl-n-valeroyl chloride	15.	4-tert-butylphenoxyacetyl chloride
17. hippuryl acid chloride 18. 4-bromobenzoyl chloride 19. 4-fluorobenzoyl chloride 20. 4-n-butoxybenzoyl chloride 21. 3-chloro-4-fluorobenzoyl chloride 22. 2-ethoxy-1-naphthoyl chloride 23. 3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24. chloride 25. 4-ethylbenzoyl chloride 26. 2-n-propyl-n-valeroyl chloride	16.	methoxyacetyl chloride
18.4-bromobenzoyl chloride 19.4-fluorobenzoyl chloride 20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	17.	hippuryl acid chloride
20.4-n-butoxybenzoyl chloride 21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	18.	4-bromobenzoyl chloride
21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	19.	4-fluorobenzoyl chloride
21.3-chloro-4-fluorobenzoyl chloride 22.2-ethoxy-1-naphthoyl chloride 23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	20.	4-n-butoxybenzoyl chloride
23.3-chlorothiophene-2-carbonyl chloride 3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	21.	3-chloro-4-fluorobenzoyl chloride
3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	22.	2-ethoxy-1-naphthoyl chloride
3,5-dimethylisoxasole-4-carbonyl 24.chloride 25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride	23.	3-chlorothiophene-2-carbonyl chloride
25.4-ethylbenzoyl chloride 26.2-n-propyl-n-valeroyl chloride		3,5-dimethylisoxasole-4-carbonyl
26.2-n-propyl-n-valeroyl chloride		chloride
26.2-n-propyl-n-valeroyl chloride 27.3,5-dimethoxybenzoyl chloride	25.	4-ethylbenzoyl chloride
27.3,5-dimethoxybenzoyl chloride	26.	2-n-propyl-n-valeroyl chloride
	27.	3,5-dimethoxybenzoyl chloride

28.	(s)-N-tosyl-phenylalanyl chloride
29.	m-anisoyl chloride
30.	benzoyl chloride
31.	cyclopropanecarbonyl chloride
32.	phenylacetyl chloride
33.	3-chlorobenzoyl chloride
34.	4-methoxyphenylacetyl chloride
	hydrocinnamoyl chloride
36.	4-tert-butylphenoxyacetyl chloride
	4-tert-butylphenoxyacetyl chloride
	4-methoxyphenylacetyl chloride
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Table V Compounds of formula R'-NCO (XII)

1 la
1.3-methoxyphenyl isocyanate
2.p-tolyl isocyanate
3.3-chlorophenyl isocyanate
4.4-biphenylyl isocyanate
5.4-acetylphenyl isocyanate
6. benzoyl isocyanate
7. isopropyl isocyanate
8.2,4-dimethylphenyl isocyanate
9.2-(difluoromethoxy)phenyl isocyanate
10.4-fluorobenzyl isocyanate
11.n-butyl isocyanate
12.2,3,4-trifluorophenyl isocyanate
13.3,5-dimethoxyphenyl isocyanate
14.2-(methylthio)phenyl isocyanate
15.3-(trifluoromethyl)phenyl isocyanate
16.2-fluorophenyl isocyanate
17.2-phenyl ethylisocyanate
18.4-methoxyphenyl isocyanate
19.3,4-(methylenedioxy)phenyl isocyanate
20.3-carbomethoxyphenyl isocyanate
21. phenyl isocyanate
22.benzyl isocyanate
23. isopropyl isocyanate

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Table VI

Compounds of formula $R'-SO_2Z$ (XIII)

1.4-isopropylbenzenesulphonyl chloride
2.2-thiophenesulfonyl chloride
3.3-(trifluoromethyl)benzenesulfonyl chloride

4.	4-n-propylbenzenesulfonyl chloride
5.	4-(trifluoromethoxy)benzenesulphonyl
	chloride
6.	2,4-difluorobenzenesulphonyl chloride
7.	1-butanesulfonyl chloride
8.	3-chloro-2-methylbenzenesulfonyl
<u>.</u>	chloride
9.	3-methoxybenzenesulphonyl chloride
10.	3,4-dichlorobenzenesulfonyl chloride
11.	3-methylbenzenesulfonyl chloride
12.	3,5-dimethylisoxazole-4-sulfonyl
	chloride
13	4-chloro-2,5-dimethylbenzenesulphonyl
1	cnioride
14	5-(tert-butyl)-2-methylfuran-3-carbonyl chloride
	3,4-dimethoxybenzenesulfonyl chloride
	2-naphthalenesulfonyl chloride
	8-quinolinesulfonyl chloride
	3,4-difluorobenzenesulphonyl chloride
19.	4-tert-butylbenzenesulfonyl chloride
20.	4-chlorobenzenesulfonyl chloride
21.	3-methylbenzenesulfonyl chloride
22.	N-acetylsulfanilyl chloride

Accordingly, it is a further object of the present invention a library of two or more aminoindazole derivatives represented by formula (I)

$$(R_1O)_{\overline{m}}$$
 N N

wherein

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R is selected from the group consisting of -NHR', -NR'R", -NHCOR', -NHCONR', -NHCONR'R", -NHSO₂R' or -NHCOOR', wherein R' and R" are, each independently, a group optionally further substituted selected from straight or branched C_1 - C_6 alkyl, C_2 - C_6 alkenyl or alkynyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 6 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen,

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oxygen or sulfur; or R is a phthalimido group of formula (II) below

any R_1 , if present, is in position 5 or 6 of the indazole ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1;

or a pharmaceutically acceptable salt thereof.

10 From all of the above, it is clear to the skilled man that once a library of indazole derivatives is thus prepared, for instance consisting of a few thousands of compounds of formula (I), the said library can be very advantageously used for screening towards given kinases, as formerly reported.

See, for a general reference to libraries of compounds and uses thereof as tools for screening biological activities, J. Med. Chem. 1999, 42, 2373-2382; and Bioorg. Med. Chem. Lett. 10 (2000), 223-226.

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PHARMACOLOGY

The compounds of formula (I) are active as protein kinase inhibitors and are therefore useful, for instance, to restrict the unregulated proliferation of tumor cells.

In therapy, they may be used in the treatment of various tumors such as, for instance, carcinomas, e.g. mammary carcinoma, lung carcinoma, bladder carcinoma, colon carcinoma, ovary and endometrial tumors, sarcomas, e.g. soft tissue and bone sarcomas, and the hematological malignancies such as, e.g., leukemias.

In addition, the compounds of formula (I) are also useful in the treatment of other cell proliferative disorders such as psoriasis, vascular smooth cell proliferation associated with atherosclerosis and post-surgical stenosis and restenosis and in the treatment of Alzheimer's disease.

The inhibiting activity of putative cdk/cyclin inhibitors and the potency of selected compounds was determined through a method of assay based on the use of the SPA technology (Amersham Pharmacia Biotech).

10 The assay consists of the transfer of radioactivity labelled phosphate moiety by the kinase to a biotinylated substrate. The resulting 33P-labelled biotinylated product is allowed to bind to streptavidin-coated SPA beads (biotin capacity 130pmol/mg), and light emitted was measured in a scintillation counter.

Inhibition assay of cdk2/Cyclin A activity

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Kinase reaction: 4 μ M in house biotinylated histone H1 (Sigma # H-5505) substrate, 10 μ M ATP (0.1 microCi $P^{33}\gamma$ -20 ATP), 4.2 ng Cyclin A/CDK2 complex, inhibitor in a final volume of 30 μ l buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 30 min at r.t. incubation, reaction was stopped by 100 μ l PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μ M ATP, containing 1 mg SPA beads. Then a volume of 110 μ l is transferred to Optiplate.

After 20 min. incubation for substrate capture, $100\,\mu l$ 5M CsCl were added to allow statification of beads to the top of the plate and let stand 4 hours before radioactivity counting in the Top-Count instrument

 $\underline{\text{TC50}}$ determination: inhibitors were tested at different concentrations ranging from 0.0015 to 10 $\mu\text{M}.$ Experimental data were analyzed by the computer program GraphPad Prizm using the four parameter logistic equation:

35 $y = bottom+(top-bottom)/(1+10^((logIC50-x)*slope))$

where x is the logarithm of the inhibitor concentration, y is the response; y starts at bottom and goes to top with a sigmoid shape.

Ki calculation:

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Experimental method: Reaction was carried out in buffer (10 mM Tris, pH 7.5, 10 mM MgCl₂, 0.2 mg/ml BSA, 7.5 mM DTT) containing 3.7 nM enzyme, histone and ATP (constant ratio of cold/labeled ATP 1/3000). Reaction was stopped with EDTA and the substrate captured on phosphomembrane (Multiscreen 96 well plates from Millipore). After extensive washing, the multiscreen plates are read on a top counter. Control (time zero) for each ATP and histone concentrations was measured.

Experimental design: Reaction velocities are measured at different four ATP, substrate (histone) and inhibitor concentrations. An 80-point concentration matrix was designed around the respective ATP and substrate Km values, and the inhibitor IC50 values (0.3, 1, 3, 9 fold the Km or IC50 values). A preliminary time course experiment in the absence of inhibitor and at the different ATP and substrate concentrations allow the selection of a single endpoint time (10 min) in the linear range of the reaction for the Ki determination experiment.

Kinetic parameter estimates: Kinetic parameters were estimated by simultaneous nonlinear least-square regression using [Eq.1] (competitive inhibitor respect to ATP, random mechanism) using the complete data set (80 points):

$$v = \frac{Vm \bullet A \bullet B}{\alpha \bullet Ka \bullet Kb + \alpha \bullet Ka \bullet B + \alpha \bullet Kb \bullet A + A \bullet B + \alpha \bullet \frac{Ka}{Ki} \bullet I \bullet (Kb + \frac{B}{\beta})}$$
 [Eq.1]

where A=[ATP], B=[Substrate], I=[inhibitor], Vm= maximum velocity, Ka, Kb, Ki the dissociation constants of ATP, substrate and inhibitor respectively. α and β the cooperativity factor between substrate and ATP binding and substrate and inhibitor binding respectively.

In addition the selected compounds have been characterized on a panel of ser/threo kinases strictly related to cell cycle (cdk2/cyclin E, cdk1/cyclin B1, cdk5/p25, cdk4/cyclin D1), and also for specificity on MAPK, PKA, EGFR, IGF1-R, and Aurora-2.

Inhibition assay of cdk2/Cyclin E activity

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Kinase reaction: 10 μ M in house biotinylated histone H1 (Sigma # H-5505) substrate, 30 μ M ATP (0.3 microCi $P^{33}\gamma$ -ATP), 4 ng GST-Cyclin E/CDK2 complex, inhibitor in a final volume of 30 μ l buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 60 min at r.t. incubation, reaction was stopped by 100 μ l PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μ M ATP, containing 1 mg SPA beads. Then a volume of 110 μ l is transferred to Optiplate.

After 20 min. incubation for substrate capture, $100\,\mu l$ 5M CsCl were added to allow statification of beads to the top of the plate and let stand 4 hours before radioactivity counting in the Top-Count instrument

IC50 determination: see above

Inhibition assay of cdk1/Cyclin B1 activity

Kinase reaction: 4 μ M in house biotinylated histone H1 (Sigma # H-5505) substrate, 20 μ M ATP (0.2 microCi $P^{33}\gamma$ -ATP), 3 ng Cyclin B/CDK1 complex, inhibitor in a final volume of 30 μ l buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 20 min at r.t. incubation, reaction was stopped by 100 μ l PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μ M ATP, containing 1 mg SPA beads. Then a volume of 110 μ l is transferred to Optiplate.

After 20 min. incubation for substrate capture, 100 μl 5M CsCl were added to allow statification of beads to the top of the Optiplate and let stand 4 hours before radioactivity counting in the Top-Count instrument.

5 IC50 determination: see above

Inhibition assay of cdk5/p25 activity

The inhibition assay of cdk5/p25 activity was performed according to the following protocol.

Kinase reaction: 10 μM biotinylated histone H1 (Sigma # H-5505) substrate, 30 μM ATP (0.3 microCi P³³γ-ATP), 15 ng CDK5/p25 complex, inhibitor in a final volume of 30 μl buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 30 min at r.t. incubation, reaction was stopped by 100 μl PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μM ATP, containing 1 mg SPA beads. Then a volume of 110 μl is transferred to Optiplate.

After 20 min. incubation for substrate capture, $100\,\mu l$ 5M 20 CsCl were added to allow statification of beads to the top of the plate and let stand 4 hours before radioactivity counting in the Top-Count instrument.

IC50 determination: see above

25 Inhibition assay of cdk4/Cyclin D1 activity

Kinase reaction: 0,4 uM μM mouse GST-Rb (769-921) (# sc-4112 from Santa Cruz) substrate, 10 μM ATP (0.5 μCi P³³γ-ATP), 100 ng of baculovirus expressed GST-cdk4/GST-Cyclin D1, suitable concentrations of inhibitor in a final volume of 50 μl buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, 7.5 mM DTT+ 0.2mg/ml BSA) were added to each well of a 96 U bottom well plate. After 40 min at 37 °C incubation, reaction was stopped by 20 μl EDTA 120 mM.

Capture: 60 μ l were transferred from each well to MultiScreen plate, to allow substrate binding to phosphocellulose filter. Plates were then washed 3 times with 150 μ l/well PBS Ca⁺⁺/Mg⁺⁺ free and filtered by MultiScreen filtration system.

Detection: filters were allowed to dry at 37°C, then 100 μ l/well scintillant were added and ³³P labeled Rb fragment was detected by radioactivity counting in the Top-Count instrument.

10 <u>IC50 determination:</u> see above

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Inhibition assay of MAPK activity

Kinase reaction: 10 μ M in house biotinylated MBP (Sigma # M-1891) substrate, 15 μ M ATP (0.15 microCi $P^{33}\gamma$ -ATP), 30 ng GST-MAPK (Upstate Biothecnology # 14-173), inhibitor in a final volume of 30 μ l buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 30 min at r.t. incubation, reaction was stopped by 100 μ l PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μ M ATP, containing 1 mg SPA beads. Then a volume of 110 μ l is transferred to Optiplate.

After 20 min. incubation for substrate capture, $100\,\mu l$ 5M CsCl were added to allow statification of beads to the top of the Optiplate and let stand 4 hours before radioactivity counting in the Top-Count instrument.

IC50 determination: see above

Inhibition assay of PKA activity

Kinase reaction: 10 μM in house biotinylated histone H1 (Sigma # H-5505) substrate, 10 μM ATP (0.2 microM $P^{33}\gamma$ -ATP), 0.45 U PKA (Sigma # 2645), inhibitor in a final volume of 30 μl buffer (TRIS HCl 10 mM pH 7.5, MgCl₂ 10 mM, DTT 7.5 mM + 0.2 mg/ml BSA) were added to each well of a 96 U bottom.

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After 90 min at r.t. incubation, reaction was stopped by 100 μ l PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μ M ATP, containing 1 mg SPA beads. Then a volume of 110 μl is transferred to Optiplate.

After 20 min. incubation for substrate capture, 100 μ l 5M 5 CsCl were added to allow statification of beads to the top of the Optiplate and let stand 4 hours before radioactivity counting in the Top-Count instrument.

IC50 determination: see above

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Inhibition assay of EGFR activity

Kinase reaction: 10 μM in house biotinylated MBP (Sigma # M-1891) substrate, 2 μM ATP (0.04 microCi $P^{33}\gamma$ -ATP), 36 ng insect cell expressed GST-EGFR, inhibitor in a final volume of 30 μ l buffer (Hepes 50 mM pH 7.5, MgCl₂ 3 mM, MnCl₂ 3 mM, DTT 1 mM, NaVO $_3$ 3 μM , + 0.2 mg/ml BSA) were added to each well of a 96 U bottom. After 20 min at r.t. incubation, reaction was stopped by 100 μl PBS + 32 mM EDTA + 0.1% Triton X-100 + 500 μM ATP, containing 1 mg SPA beads. Then a volume of 110 μl is transferred to Optiplate.

After 20 min. incubation for substrate capture, 100 μ l 5M CsCl were added to allow statification of beads to the top of the Optiplate and let stand 4 hours before radioactivity counting in the Top-Count instrument.

IC50 determination: see above 25

Inhibition assay of IGF1-R activity

inhibition assay of IGF1-R activity was performed according to the following protocol.

Kinase reaction: 10 μM biotinylated MBP (Sigma cat. # M-30 1891) substrate, 0-20 μM inhibitor, 6 μM ATP, 1 microCi ^{33}P -ATP, and 22.5 ng GST-IGF1-R (pre-incubated for 30 min at room temperature with cold 60 μM cold ATP) in a final

volume of 30 μ l buffer (50 mM HEPES pH 7.9, 3 mM MnCl₂, 1 mM DTT, 3 μM NaVO₃) were added to each well of a 96 U bottom well plate. After incubation for 35 min at temperature, the reaction was stopped by addition of 100 $\mu \textrm{l}$ 5 PBS buffer containing 32 mM EDTA, 500 μ M cold ATP, 0.1% Triton X100 and 10mg/ml streptavidin coated SPA beads. 20 min incubation, 110 μL of suspension were After withdrawn and transferred 96-well OPTIPLATES into containing 100 μl of 5M CsCl. After 4 hours, the plates were read for 2 min in a Packard TOP-Count radioactivity reader.

Inhibition assay of Aurora-2 activity

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Kinase reaction: 8 μM biotinylated peptide (4 repeats of LRRWSLG), 10 μM ATP (0.5 uCi P 33 g-ATP), 15 ng Aurora2, inhibitor in a final volume of 30 μl buffer (HEPES 50 mM pH DTT, 0.2 mg/ml BSA, $MqCl_2$ 10 mM, 1 mM 7.0, orthovanadate) were added to each well of a 96 U bottom at room temperature minutes plate. After 30 well incubation, reaction was stopped and biotinylated peptide captured by adding 100 μl of bead suspension.

Stratification: 100 μ l of CsCl2 5 M were added to each well and let stand 4 hour before radioactivity was counted in the Top-Count instrument.

IC50 determination: see above 25

Inhibition assay of Cdc7/dbf4 activity

The inhibition assay of Cdc7/dbf4 activity was performed according to the following protocol.

The Biotin-MCM2 substrate is trans-phosphorylated by the 30 Cdc7/Dbf4 complex in the presence of ATP traced with γ^{33} -ATP. The phosphorylated Biotin-MCM2 substrate is then captured by Streptavidin-coated SPA beads and the extent of phosphorylation evaluated by $\boldsymbol{\beta}$ counting.

The inhibition assay of Cdc7/dbf4 activity was performed in 96 wells plate according to the following protocol.

- 5 To each well of the plate were added:
 - 10 μ l substrate (biotinylated MCM2, 6 μ M final concentration)
 - 10 μ l enzyme (Cdc7/Dbf4, 12.5 nM final concentration)
- 10 μ l test compound (12 increasing concentrations in the nM to μ M range to generate a dose-response curve)
 - 10 μl of a mixture of cold ATP (10 μM final concentration) and radioactive ATP (1/2500 molar ratio with cold ATP) was then used to start the reaction which was allowed to take place at 37°C.
- Substrate, enzyme and ATP were diluted in 50 mM HEPES pH 7.9 containing 15 mM MgCl $_2$, 2 mM DTT, 3 μ M NaVO $_3$, 2mM glycerophosphate and 0.2mg/ml BSA. The solvent for test compounds also contained 10% DMSO.
- After incubation for 20 minutes, the reaction was stopped by adding to each well 100 μ l of PBS pH 7.4 containing 50 mM EDTA, 1 mM cold ATP, 0.1% Triton X100 and 10 mg/ml streptavidin coated SPA beads.
- After 15 minutes of incubation at room temperature to allow the biotinylated MCM2-streptavidin SPA beads interaction to occur, beads were trapped in a 96 wells filter plate (Unifilter R GF/ B^{TM}) using a Packard Cell Harvester (Filtermate), washed with distilled water and then counted using a Top Count (Packard).
- Counts were blank-subtracted and then the experimental data (each point in triplicate) were analyzed for IC50 determination using a non-linear regression analysis (Sigma Plot).

The compounds of formula (I) of the present invention, suitable for administration to a mammal, e.g. to humans, can be administered by the usual routes and the dosage level depends upon the age, weight, conditions of the patient and the administration route.

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For example, a suitable dosage adopted for oral administration of a compound of formula (I) may range from about 10 to about 500 mg pro dose, from 1 to 5 times daily. The compounds of the invention can be administered in a variety of dosage forms, e.g. orally, in the form of tablets, capsules, sugar or film coated tablets, liquid solutions or suspensions; rectally in the form of suppositories; parenterally, e.g. intramuscularly, or by intravenous and/or intrathecal and/or intraspinal injection or infusion.

In addition, the compounds of the invention can administered either as single agents or, alternatively, in combination with known anticancer treatments such as radiation therapy or chemotherapy regimen in combination with cytostatic or cytotoxic agents, antibiotic-type agents, alkylating agents, antimetabolite agents, hormonal immunological agents, interferon-type inhibitors), inhibitors (e.g. COX-2 cyclooxygenase metallomatrixprotease inhibitors, telomerase inhibitors, tyrosine kinase inhibitors, anti-growth factor receptor agents, anti-HER agents, anti-EGFR agents, angiogenesis agents, farnesyl transferase inhibitors, rasraf signal transduction pathway inhibitors, cell cycle inhibitors, other cdks inhibitors, tubulin binding agents, topoisomerase I inhibitors, topoisomerase II inhibitors, and the like.

As an example, the compounds of the invention can be administered in combination with one or more chemotherapeutic agents such as, for instance, exemestane, formestane, anastrozole, letrozole, fadrozole, taxane,

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taxane derivatives, encapsulated taxanes, CPT-11, camptothecin derivatives, anthracycline glycosides, e.g., doxorubicin, idarubicin, epirubicin, etoposide, navelbine, vinblastine, carboplatin, cisplatin, estramustine, celecoxib, tamoxifen, raloxifen, Sugen SU-5416, Sugen SU-6668, Herceptin, and the like, optionally within liposomal formulations thereof.

If formulated as a fixed dose, such combination products employ the compounds of this invention within the dosage range described above and the other pharmaceutically active agent within the approved dosage range.

Compounds of formula (I) may be used sequentially with known anticancer agents when a combination formulation is inappropriate.

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The present invention also includes pharmaceutical compositions comprising a compound of formula (I) or a pharmaceutically acceptable salt thereof in association with a pharmaceutically acceptable excipient (which can be a carrier or a diluent).

The pharmaceutical compositions containing the compounds of the invention are usually prepared following conventional methods and are administered in a pharmaceutically suitable form.

For example, the solid oral forms may contain, together 25 with the active compound, diluents, e.g. lactose, dextrose, saccharose, sucrose, cellulose, corn starch or potato starch; lubricants, e.g. silica, talc, stearic, magnesium or calcium stearate, and/or polyethylene glycols; binding gelatin, qum, arabic starches, e.q. agents, 30 carboxymethylcellulose polyvinyl ormethylcellulose, pyrrolidone; disaggregating agents, e.g. a starch, alginic, effervescing starch glycolate; sodium oralginates mixtures; dyestuffs; sweeteners; wetting agents such as lecithin, polysorbates, laurylsulfates; and, in general, 35 non-toxic and pharmacologically inactive substances used in pharmaceutical formulations. Said pharmaceutical preparations may be manufactured in known manner, for example, by means of mixing, granulating, tabletting,

sugar-coating, or film-coating processes.

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5 The liquid dispersions for oral administration may be e.g. syrups, emulsions and suspensions.

The syrups may contain as carrier, for example, saccharose or saccharose with glycerin and/or mannitol and/or sorbitol.

The suspensions and the emulsions may contain as carrier, for example, a natural gum, agar, sodium alginate, pectin, methylcellulose, carboxymethylcellulose, or polyvinyl alcohol.

The suspension or solutions for intramuscular injections may contain, together with the active compound, pharmaceutically acceptable carrier, e.g. sterile water, olive oil, ethyl oleate, glycols, e.g. propylene glycol, amount lidocaine a suitable οf desired, if hydrochloride. The solutions for intravenous injections or infusions may contain as carrier, for example, sterile water or preferably they may be in the form of sterile, aqueous, isotonic saline solutions or they may contain as a carrier propylene glycol.

The suppositories may contain together with the active compound a pharmaceutically acceptable carrier, e.g. cocoa butter, polyethylene glycol, a polyoxyethylene sorbitan fatty ester surfactant or lecithin.

The following examples are herewith intended to better 30 illustrate the present invention without posing any limitation to it.

General Methods

Flash Chromatography was performed on silica gel (Merck grade 9395, 60A). The high pressure liquid chromatography retention times (HPLC: $R_{\rm T}$ values) were determined by:

Method 1:

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Instrumentation: Waters 2790 HPLC system equipped with a 996 Waters PDA detector and Micromass mod. ZQ single quadrupole mass spectrometer, equipped with an electrospray (ESI) ion source.

Chromatographic condition: RP18 Waters X Terra (4,6 x 50 mm, 3.5 μ m) column; Mobile phase A was ammonium acetate 5 mM buffer (pH 5.5 with acetic acid/acetonitrile 95:5), and Mobile phase B was H₂O/acetonitrile (5:95). Gradient from 10 to 90% B in 8 minutes, hold 90% B 2 minutes. UV detection at 220 nm and 254 nm. Flow rate 1 ml/min. Injection volume 10 μ l. Full scan, mass range from 100 to 800 amu. Capillary voltage was 2.5 KV; source temp. was 120°C; cone was 10 V. Retention times (HPLC r.t.) are given in minutes at 220 nm or at 254 nm. Mass are given as m/z ratio.

Method 2:

Instrumentation: Waters 2790 Alliance with thermostated autosampler; UV detector with dual wavelength 2487; Satin Interface; Divert valve LabPro, Mass spectrometer Waters ZQ single quadrupole with ESI interface; Antek chemoluminescens nitrogen detector (CLND) 8060.

Chromatographic condition: Zorbax SB C8 (4.6 x 50mm; 5 μ m) 0.01% formic acid in was A Mobile Phase column: acetonitrile and Mobile Phase B was 0.01% formic acid in Methanol. Gradient from 0 to 95% B in 10 minutes, hold 95% for 2 minutes. UV detection at 220 nm. Flow rate 1 ml/min. Injection volume 10 $\mu l\,.$ Full scan, mass range from 120-1000 amu. Capillary voltage 2.8 KV; source temperature 115°C cone was 32 V.

Retention times (HPLC r.t.) are given in minutes at 220 nm or at 254 nm. Mass are given as m/z ratio.

Method 3:

Instrumentation: HP1100 HPLC binary pump; Gilson 215 autosampler, HP1100 single wavelength UV detector, a Sedex

75c evaporative light scattering (ELS) detector (Sedere, France); and a PE/Sciex API-2000 mass spectrometer

Chromatographic condition: YMC ODS-AQ 4.6 x 50mm, 5 μ m S5 columns; with HPLC mobile phases consisting of 0.5% formic acid in HPLC grade water (A) and 0.5% formic acid in HPLC grade acetonitrile (B). The HPLC gradient shown in the table was performed with 5 μ L injections for each sample. UV detection at 220 nm.

LC/MS/UV/ELS Gradient					
Time (min)	Flow (mL/min)	% A	% B		
0.00	2.0	98	2		
2.58	2.0	2	98		
3.08	2.0	2	98		
3.13	2.0	0	100		
3.28	2.0	0	100		
3.33	2.0	98	2		
4.00	2.0	98	2		

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The Turbo IonSpray source was employed with an ion spray voltage of 5kV, a temperature of $475^{\circ}C$, and orifice and ring voltages of 10V and 250V respectively. Positive ions were scanned in Q1 from 160 to 800 amu.

When necessary, the compounds have been purified by preparative HPLC on a Waters Symmetry C18 (19 x 50 mm, 5μm) column using a waters preparative HPLC 600 equipped with a 996 Waters PDA detector and a Micromass mod. ZMD single quadrupole mass spectrometer, electron spray ionization, positive mode. Mobile phase A was water 0.01% TFA, and Mobile phase B was acetonitrile. Gradient from 10 to 90% B in 8 min, hold 90% B 2 min. Flow rate 20 ml/min.

1H-NMR spectrometry was performed on a Mercury VX 400 operating at 400.45 MHz equipped with a 5 mm double resonance probe [1H (15N-31P) ID_{PFG} Varian].

5 As formerly indicated, several compounds of formula (I) of the invention have been synthesized in parallel, according to combinatorial chemistry techniques.

In this respect, some compounds thus prepared have been conveniently and unambiguously identified, as per the coding system of tables from IX to XVI, together with HPLC retention time (methods 1 to 3) and mass.

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Each code, which identifies a single specific compound of formula (I), consists of three units A-M-B.

A represents any substituent R_1 - [see formula (I)] and is attached to the rest of the indazole moiety through the oxygen atom so as to get indazole derivatives being substituted in position 5 (A-M1-B) or in position 6 (A-M2-B); each A radical (substituent) is represented in the following table VII.

Together with the -NH- group in position 3 of the indazole moiety to which it is attached, B-NH- represents the R group of formula (I); each B radical (substituent) is represented in the following table VIII.

M refers to the central core of the divalent 3-aminoindazole moiety having the -O- group in position 5 or 6 and is substituted by groups A and B.

In particular, M may vary from M1 or M2 as per the formulae below, each identifying a compound being substituted by A-O- groups in position 5 (M1) or in position 6 (M2)

For ease of reference, each A or B groups of tables VII and VIII has been identified with the proper chemical formula also indicating the point of attachment with the rest of the molecule M.

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Just as an example, the compound A21-M1-B10 of table XI (see example 11, entry 429) represents an indazole M1 being substituted in position 5 (through the oxygen atom) by the group A21 and in position 3 (through the -NH- group) by the group B10; likewise, the compound A10-M2-B70 of table XII (see example 12, entry 281) represents an indazole M2 being substituted in position 6 (through the oxygen atom) by the group A10 and in position 3 (through the -NH- group) by the group B70:

Table VII - A groups

Fragment	Code	Fragment	Code	Fragment	Code
				M~~o~	
	1 1				
M·H	A00		A13		A27
				"	
M M		M**	}		
	A01		A14		A29
		ļ P			
M		0			
	A02		A15		A30
M		M			
C ₁	[[M	1 1
Ć1	A03		A16		A31
M		M			
F	A04)=N	A17	l w l	A32
	1.0-7	· ·	<u> </u>	1 1	7.02
M			1 1	M	1 1
F → Br	A05	F	A18		A33
		F.			
M	A06	M			
M	AU6		A20	M. ^	A35
)	_F M			
ļ	A07		A21		A36
F ~ M		F, F		M	
F U	1 1				
		FF			
	A08	ļ	A22		A37
M^^^					[]
	A09		A23		A38
				м	
M" FILE					
_F t	A10	F Y	A24		A39
		F. /		M. Å.	1.00
F 0					
	A11		A25		A40
M ^		F^M			
<u> </u>	A12	L	A26		

					
	A41	F~~~M	A53	M-\^H	A64
w~}	A43	M	A54	M~~~0	A65
M	A44	M N	A55		A66
	A45	M	A56		A67
***	A46	M	A57	₩ M	A68
M. J.	A47	M	A58	MN	A69
S Cz	A48	Ms	A59	M~~	A70
M	A50	M_	A60	TN O O M	A71
M °	A51	M	A61		
M	A52	M	A62		

Table VIII - B groups

Fragment	Code	Fragment	Code	Fragment	Code
	B01	M F F	B12	M S	B23
	B02	M N O	B13	M P	B24
M	B03		B14		B25
M	B04	M Co	B15	M	B26
	B05	m	B16	M	B27
M F	B06		B17		B28
M CI	B07	M Br	B18		B29
M	B08	M F	B19	M	B31
	B09		B20		B32
, Co	B10	M CI	B21	CI C	B33
M F	B11		B22	o M.	B35

M	B36		B50	M J N	B63
		M	B51	M Y N C I	B64
M &	B40	M. S. CI	B52		B65
M J	B41	M o	B53		B66
M S F F	B42		B54		B67
	B43		B55	M N	B68
M P F F	B44	O=S=O M	B56	M T N	B69
M O F	B45	F. J. M.	B57	M N	B70
M. S. C.	B46	Y JAM	B58	M N F	B71
M. S.	B47	CI C	B59	M N	B72
M	B47	T N O O O O	B61	M N F F	B73
M S CI	B49	M N O	B62	M Y N Y O O	B74

M_N 0	B75	M_N_N_	B78	M N O	B81
M F F	B76	MYN Co	B79		B82
M N	B77	M N O	B80		B83

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Example 1

6-Methoxy-1H-indazol-3-amine

To an ice-cooled suspension of 66.35 g (0.448 mol) of 2amino-4-methoxybenzonitrile in 530 ml of concentrated HCl, a solution of 37.07 g (0.537 mol) of sodium nitrite in 55ml of water was added dropwise. After 1.5 hours the cold suspension was added dropwise to a preformed solution of 679.25 g (3.58 mol) of stannous chloride in 530 ml of concentrated hydrochloric acid (HCl), at 5°C. After 3 hours the cold suspension was filtered and the moist solid was treated with 1.7 l of boiling water for 30 min. The hot cloudy solution was clarified by filtration through a cloth filter. The liquors were ice-cooled and treated dropwise with 0.8 l of 17% NaOH. The solid was filtered off and 67.2 g of product were dried under vacuum at 50°C: obtained as light brown solid. Yield = 91.9%. mp =195-197°C $HPLC r.t. 1.9 [M+H]^+ = 164$ dec. ${\rm H^1NMR}$ (DMSO-d₆), diagnostic signals (ppm): 3.74 (s, 3H), 5.17 (broad s, 2H), 6.5 (dd, 1H), 6.6 (d, 1H), 7.5 (d, 2H), 11.07 (s, 1H).

Example 2

2-({6-methoxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione

30 20 g (0.122 mol) of 6-methoxy-1H-indazol-3-amine, 20 g (0.135 mol) of phthalic anhydride and 140 mg (1.22 mmol) of

4-dimethylaminopyridine were refluxed in 0.4 l of acetonitrile for 2.5 hours. The mixture was cooled to 5°C and filtered obtaining a first crop of product (24.2 g). The mother liquors were concentated under vacuum and treated with 70 ml of tert-buthyl methyl ether (MTBE): a second crop of product (5.8 g) was obtained by filtration. Then, a total of 30.0 g of product as a yellow solid were obtained. Yield = 83.6%. mp = 193-195°C

 $HPLC r.t. 4.7 [M+H]^{+} = 294 [2M+H]^{+} = 587[3M+H]^{+} = 880$ $\mathrm{H^{1}NMR}$ (DMSO-d₆), diagnostic signals (ppm): 3.84 (s, 3H), 6.78 (dd, 1H), 6.96 (d, 1H), 7.55 (dd, 1H), 7.91-8.1 (m,

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4H), 13.14 (s, 1H).

Example 3

2-({6-hydroxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione A mixture of 24.2 g (82.5 mmol) of 2-({6-methoxy}-1Hindazol-3-yl)-1H-isoindole-1,3(2H)-dione and 73.4 g (0.635 mol) of piridine hydrochloride was heated at 200°C for 4 hours. The resulting brown solution was cooled to 140°C and slowly poured in a well stirred mixture of 250 ml of 0.2 N HCl and 350 ml of ethyl acetate. The organic layer was separated and the aqueous layer was salted (45 g of NaCl) and extracted twice with 350 ml of ethyl acetate. Organic extracts were dried over sodium sulfate and concentrated under vacuum to small volume. The precipitate was filtered off and dried: 15.89 g of product as yellow solid were obtained. Yield = 68.9%. mp = 265-270°C dec. $HPLC \text{ r.t. } 3.7 \text{ [M+H]}^+ = 280 \text{ [2M+H]}^+ = 559 \text{ [3M+H]}^+ = 838$ $H^{1}NMR$ (DMSO-d₆), diagnostic signals (ppm): 6.65 (dd, 1H), 6.8 (s, 1H), 7.44 (d, 1H), 7.97 (m, 4H), 9.73 (broad s, 1H) 12.86 (s, 1H).

Example 4

2-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1Hisoindole-1,3(2H)-dione

To a suspension of 15.03 g (53.82 mmmol) of 2-({6-hydroxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione in 150 ml dichloromethane, a solution of 20.19 g (0.134 mol) of TBDMS in 75 ml of dichloromethane was added. chloride resulting mixture was treated dropwise with 12.06 ml (80.73 mmol) of 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) at room temperature, obtaining a clear solution. After 3 hours the reaction mixture was poured in 250 ml of 0.5 N HCl. The aqueous layer was separated and extracted with 120 ml of dichloromethane. Organic extracts were dried over sodium sulfate and the solvent evaporated under vacuum. The moist raw product was stirred in 50 ml of ethyl acetate at 50°C. Then, about one half of the solvent was evaporated under vacuum and the mixture was treated dropwise with 100 ml of cyclohexane. The product was isolated by suction as light yellow solid (15.04 g). Yield = 71.0%. mp = 207-209°C. $HPLC r.t. 7.6 [M+H]^{+} = 394 [2M+H]^{+} = 787$ $H^{1}NMR$ (DMSO- d_{6}), diagnostic signals (ppm): 0.21 (s, 6H), 0.98 (s, 9H), 6.71 (dd, 1H), 6.91 (d, 1H), 7.54 (d, 1H), 7.93 (m, 2H), 8.1 (m, 2H).

Example 5

5-benzyloxy-1H-indazol-3-amine

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To an ice-cooled suspension of 63.27 g (0.282 mol) of 2-amino-5-(benzyloxy) benzonitrile in 500 ml of concentrated hydrochloric acid, a solution of 23.32 g (0.338 mol) of sodium nitrite in 75 ml of water was added dropwise. After 2 hours the cold suspension was added dropwise to a preformed solution of 509.25 g (2.26 mol) of stannous chloride in 380 ml of concentrated HCl, at 2°C. After 3 hours the cold suspension was filtered and the moist solid was treated with 1.8 l of boiling water and 300 ml of ethanol 95° for 30 min. The hot cloudy solution was clarified by filtration through a cloth filter. The liquors were concentrated to eliminate ethanol and treated dropwise

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with 0.35 l of 35% NaOH at 4°C. The solid was filtered off and dried under vacuum at 50°C: 73.82 g of product were obtained as light brown solid. mp =193-195°C HPLC r.t. $4.7 [M]^+ = 240 [2M+H]^+ = 479$

 $\mathrm{H}^{1}\mathrm{NMR}$ (DMSO-d₆), diagnostic signals (ppm): 5.03 (s, 2H), 5.16 (broad s, 1H), 6.96 (d, 1H), 7.13 (d, 1H), 7.26 (d, 1H), 7.27-7.49(m, 5H).

Example 6

2-[5-(benzyloxy)-1H-indazol-3-yl]-1H-isoindole-1,3(2H)-10 dione

73.82 g of 5-benzyloxy-1H-indazol-3-amine were treated under stirring with 3 l of acetonitrile. The liquor was decantated and the residue was treated with a mixture of 0.5 l of methanol and 0.5 l of ethyl acetate, under stirring. The remaining solid was filtered off (11.05 g of tin salts) and the liquor was evaporated to dryness under vacuum. The residue was dissolved in the former liquor and the solvent was removed under vacuum to a final volume of about 1 l. To this solution, 45.97 g (0.31 mol) of phthalic anhydride and 345 mg (2.82 mmol) of 4-dimethylamino pyridine were added. The mixture was refluxed for 2 hours, then, it was concentrated under vacuum to obtain a first crop of product (70.11 g). The mother liquors were concentated to dryness and the residue was treated with 30 25 ml of ethyl acetate and 100 ml of tert butyl methyl ether (MTBE): a second crop of product (9.75 g) was obtained by filtration. Then a total of 79.86 g of product as yellow solid were obtained. Yield = 76.6 % over two steps. mp = 190-192°C HPLC r.t. 6.5 min. $[M+H]^+ = 370 [2M+H]^+ = 739$ 30 ${\rm H^1NMR}$ (DMSO-d₆), diagnostic signals (ppm): 5 (s, 2H), 7.14 (d, 1H), 7.3-7.47 (m, 5H), 7.52 (d, 2H), 8, (m, 4H), 13.27 (s, 1H).

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Example 7

2-(5-hydroxy-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione

A mixture of 46.14 g (0.125 mol) of 2-[5-(benzyloxy)-1Hindazol-3-yl]-1H-isoindole-1,3(2H)-dione and 143.35 g (1.24 mol) of piridine hydrochloride was heated at 180°C for 1.5 5 hours. The resulting brown solution was cooled to 120°C and slowly poured in a well stirred mixture of 800 ml of 0.5 N HCl. The precipitate was filtered off and dried: 32.26 g of product as yellow solid were obtained. Yield = 92.4%. mp >270°C HPLC r.t. 3.2 $[M+H]^+ = 280 [2M+H]^+ = 559$ ${\rm H^1NMR}$ (DMSO-d₆), diagnostic signals (ppm): 6.8 (s, 1H), 6.98 (d, 1H), 7.42 (d, 1H), 8 (m, 4H), 9.2 (s, 1H) 13.12 (s, 1H).

Example 8 15

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2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]isoindole-1,3-dione

To a suspension of 32.26 g (0.115 mol) of 2-(5-hydroxy-1Hindazol-3-yl)-1H-isoindole-1,3(2H)-dione in 320 dichloromethane, a solution of 43.54 g (0.288 mol) of TBDMS chloride in 150 ml of dichloromethane was added. resulting mixture was treated dropwise with 35.5 ml (0.23 mol) of 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU) at room temperature, obtaining a clear solution. After 3 hours the reaction mixture was poured in 300 ml of a solution 0.1 $\ensuremath{\text{N}}$ of hydrochloric acid. The aqueous layer was separated and extracted with 200 ml of dichloromethane. Organic extracts were dried over sodium sulfate and the solvent evaporated under vacuum. The raw product was purified by flash eluiting gel silica chromatography over dichloromethane-cyclohexane-ethyl acetate (4:4:2). 36.03 g of product as white solid were obtained. Yield = 79.2%. mp = 225-228°C. HPLC r.t. 8.3 [M+H]⁺ = 394 [2M+H]⁺ = 787

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 $H^{1}NMR$ (DMSO-d₆), diagnostic signals (ppm): 0.15 (s, 6H), 0.93 (s, 9H), 6.98 (dd, 1H), 7.07 (s, 1H), 7.49 (d, 1H), 7.96 (m, 4H), 13.25 (s, 1H).

Example 9

N-(6-hydroxy-1H-indazol-3-yl)benzamide

resin was then dried under vacuum.

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane 2-[6-(tert-butyl-dimethyl-silanyloxy)-1H-374 mg of 10 indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydrommol) were (1.3)1,3,2-diazaphosphorine suspension was stirred for 16 hours and then the resin was washed with dichloromethane, methanol, and filtered dimethylformamide, methanol and dichloromethane again. The

The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

40 mg of resin were suspended in 1 ml of dichloromethane and 150 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H] += 394.

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The resin obtained from the first step (500 mg, ~0.425 mmol) was suspended in 5 ml of mixture of dichloromethane and methanol 1:1 and 500 μl of hydrazine monohydrate were The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again before drying under vacuum.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

Cleaved product: 6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine: HPLC r.t. Method 1: 5.99 [M+H]+= 264; [M-5 H]-= 262

A sample of the resin obtained from the second step (100 mg, 0.08 mmol) was suspended in 2.5 ml of dichloromethane; N,N'-diisoproylethylamine (131 μ l, ~10 eq) and benzoyl chloride (30 μ l, ~3eq) were added. Stirring at room temperature was maintained for 20 hours, the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane again before drying under vacuum.

The identity of the resin was checked by cleavage of the loaded product. The reaction was performed as previously described.

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Cleaved product: N-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)benzamide HPLC r.t. Method 1: 7.47 [M+H]+= 368 [M-H]-= 366

The resin obtained from the previous step (100 mg, 0.08 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

30 100 mg of resin were suspended in 3 ml of dichloromethane and 450 μ l of trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and the title compound recovered.

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N-(6-hydroxy-1H-indazol-3-yl) benzamide HPLC Method 1 r.t. 3.5 [M+H]+= 253.99 [M-H]-= 252.

By proceeding in a manner similar to that of Example 9, 2- (6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin and then, by following the described synthetic scheme, the products below were synthesized.

10 N-(5-Hydroxy-indazol-3-yl)-benzamide.: HPLC Method 1 r.t. 3.08 [M+H] += 253.99

2-(4-tert-butylphenoxy)-N-(5-hydroxy-2H-indazol-3-yl)acetamide HPLC Method 1 r.t. 5.38 [M+H]+= 340.2

N-(5-hydroxy-2H-indazol-3-yl)-2-(4-methoxyphenyl)acetamide

15 HPLC Method 1 r.t. 3.35 [M+H]+= 298.1

N-(6-hydroxy-2H-indazol-3-yl)-3-phenylpropanamide HPLC Method 1 r.t. 3.94 [M+H] += 282.1

N-(6-hydroxy-2H-indazol-3-yl)cyclopropanecarboxamide HPLC Method 1 r.t. 2.36 [M+H] += 218.1

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By proceeding in the same way (example 9), 7 products were synthesized in parallel and coded in table IX, as formerly indicated; related HPLC retention time and the experimentally found [M+H]+ are reported.

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Table IX

Entry	Compound	HPLC method	r.t. (min)	[M+H]+
1	A00-M1-B36	1	3.68	282.1
2	A00-M1-B31	1	2	218.1
3	A00-M1-B33	1	4.05	288
4	A00-M2-B68	1	3.08	235.1
5	A00-M2-B15	1	5.52	340.2
6	A00-M2-B35	1	3.62	298.1
7	A00-M2-B33	1	4.38	288

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Example 10

N-Butyl-N'-(6-hydroxy-1H-indazol-3-yl)urea

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane mg of 2-[6-(tert-butyl-dimethyl-silanyloxy)-1H-5 indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydroadded. The were 1,3,2-diazaphosphorine (1.3)mmol) suspension was stirred for 16 hours and then the resin was dichloromethane, methanol, with washed and filtered 10 dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum. The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

40 mg of resin were suspended in 1 ml of dichloromethane and 150 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

The resin obtained from the first step (500 mg, ~0.425 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 500 μ l of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

Cleaved product: 6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine: HPLC r.t. Method 1: 5.99 [M+H]+= 264; [M-H]-= 262

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A sample of the resin obtained from the second step (100 mg, 0.08 mmol) was suspended in 2 ml of dimethylformamide; N-butyl isocyanate (28 μ l ~5 eq) was added. The suspension was heated to 50°C. Stirring and heating was maintained for 60 hours, then the suspension was cooled down to room temperature. The resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

- 10 100 mg of resin were then suspended in 3 ml of dichloromethane and 450 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and the title compound recovered.
- 15 <u>1-butyl-3-(6-hydroxy-1H-indazol-3-yl)-urea</u> HPLC Method 1 r.t. 3.87 [M+H]+= 249 [M-H]-= 247.

By proceeding in a manner similar to that of Example 10, 2- (6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-

- isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin and then, by following the described synthetic scheme, the products below were synthesized.
 - 1-butyl-3-(5-hydroxy-1H-indazol-3-yl)-urea HPLC Method 1
- 25 r.t. 3.65 [M+H]+= 249 [M-H]-= 247

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- N-benzyl-N'-(5-hydroxy-2H-indazol-3-yl)urea HPLC Method 1 r.t.: 4 [M+H]+= 283.1
 - N-(5-hydroxy-2H-indazol-3-yl)-N'-isopropylurea HPLC Method 1 r.t.: 2.92 [M+H]+= 235.1
- 30 N-(6-hydroxy-2H-indazol-3-yl)-N'-phenylurea HPLC Method 1 r.t.: 4.4 [M+H]+= 269.1

By proceeding in the same way (example 10), 13 products were synthesized in parallel and coded in table X, as

formerly indicated; related HPLC retention time and the experimentally found [M+H]+ are reported.

Table X

Entry	Compound	HPLC method	r.t. (min)	[M+H]+
1	A00-M1-B68	3	1.39	235.1
2	A00-M1-B63	3	1.89	283.1
3	A00-M1-B78	3	1.85	297.1
4	A00-M1-B79	3	1.71	299.1
5	A00-M1-B62	3	1.77	299.1
6	A00-M1-B64	3	2.01	303.1
7	A00-M1-B66	3	1.65	311.1
8	A00-M1-B17	3	1.33	311.1
9	A00-M1-B74	3	1.83	329.1
10	A00-M1-B76	3	2.12	337.1
11	A00-M1-B65	3	2.27	345.1
12	A00-M2-B83	1	4.15	283.1
13	A00-M1-B82	1	4.15	269.1

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Example 11

N-(6-Benzyloxy-1H-indazol-3-yl)-benzamide

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane 374 mg of 2-[6-(tert-butyl-dimethyl-silanyloxy)-1Hindazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydroadded. The were 1,3,2-diazaphosphorine (1.3)mmol) suspension was stirred for 16 hours and then the resin was methanol, washed with dichloromethane, filtered and dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum. The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

40 mg of resin were suspended in 1 ml of dichloromethane and 150 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

The resin obtained from the first step (500 mg, ~0.425 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 500 μ l of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again before drying under vacuum.

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- The identity of the resin was checked by cleavage. The reaction was performed as described above.

 6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine HPLC r.t. Method 1: 5.99 [M+H]+= 264 [M-H]-= 262
- A sample of the resin obtained from the second step (100 15 mg, 0.08 mmol) was suspended in 2.5 ml of dichloromethane; N,N'-diisoproylethylamine (131 μ l, ~10 eq) and benzoyl chloride (30 μ l, ~3eq) were added. Stirring at room temperature was maintained for 20 hours, then the resin was with dichloromethane, methanol, washed filtered and 20 again methanol and dichloromethane dimethylformamide, before drying under vacuum.

The identity of the resin was checked by cleavage of the loaded product. The reaction was performed as previously described.

- N-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3yl)benzamide HPLC Method 1 r.t.: 7.47 [M+H]+= 368 [M-H]-= 366
- The resin obtained from the third step (100 mg, 0.08 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed

with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

The identity of the resin was checked by cleavage of the loaded product. The reaction was performed as previously described.

N-(6-hydroxy-1H-indazol-3-yl) benzamide HPLC Method 1 r.t. 3.5 [M+H] += 253.99 [M-H] -= 252.

The resin obtained from the fourth step (100 mg, 0.08 mmol)

were suspended in 3 ml of 1-methyl-2-pyrrolidinone, then 43

µl of 2-tert-butylimino-2-diethylamino-1,3
dimethylperhydro-1,3,2-diazaphosphorine (~1.5 eq) and 57

µl of benzyl bromide (~6 eq) were added. The suspension was

stirred for 16 hours. The resin was filtered and washed

with dichloromethane, methanol, dimethylformamide, methanol

and dichloromethane.

100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 µl trifluoroacetic acid were added.

After 2 hours the resin was drained and washed twice with 3

20 ml of dichloromethane; the collected solutions were dried and the desired title compound recovered.

N-(6-Benzyloxy-1H-indazol-3-yl)-benzamide HPLC r.t. Method 1: 6.17 [M+H]+= 344.

By proceeding in a manner similar to that of Example 11, 2-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin and then, by following the described synthetic scheme, the products below were synthesized.

N-(5-benzyloxy-1H-indazol-3-yl)-benzamide HPLC r.t. 6.05
[M+H]+= 344;

Methyl 2-({3-[(3-phenylpropanoyl)amino]-1H-indazol-5-yl}oxy)butanoate HPLC Method 2 r.t. 8.2 [M+H]+= 382.1;

N-{5-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}cyclopropanecarboxamide HPLC Method 2 r.t. 7.19 [M+H]+=377.2;

Methyl 2-({3-[(cyclopropylcarbonyl)amino]-1H-indazol-5-yl}oxy)butanoate HPLC Method 2 r.t. 7.05 [M+H]+= 318.1

methyl 2-[(3-{[(4-methoxyphenyl)acetyl]amino}-1H-indazol-5yl)oxy]butanoate HPLC Method 2 r.t. 7.78 [M+H]+= 398.2:
N-{6-[(2-methylbenzyl)oxy]-1H-indazol-3-

yl}cyclopropanecarboxamide HPLC Method 2 r.t. 8.38 [M+H]+=
322.1;

N-{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}cyclopropanecarboxamide HPLC Method 2 r.t. 7.41 [M+H]+= 377.2;

Methyl 2-({3-[(cyclopropylcarbonyl)amino]-1H-indazol-6yl}oxy)butanoate HPLC Method 1 r.t. 4.31 [M+H]+= 318.1; Methyl 2-({3-[(3-chlorobenzoyl)amino]-1H-indazol-6yl}oxy)butanoate HPLC Method 1 r.t. 6.02 [M+H]+= 388.1

By proceeding in the same way (example 11), 806 products 20 were synthesized in parallel and coded in table XI, as formerly indicated; related HPLC method and retention time together with experimentally found [M+H]+ are reported.

Table XI

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Entry	compound	HPLC Method	r.t. (min)	[M+H]+		Entry	compound	HPLC Method	r.t. (min)	[M+H]+
1	A29-M1-B36	2	8.18	441.2	Г	404	A02-M1-B10	3	2.06	404.2
2	A31-M1-B36	2	8.02	350.2	П	405	A03-M1-B10	3	2.37	472.1
3	A35-M1-B36	2	8.18	429.2		406	A03-M2-B10	3	2.48	472.1
4	A40-M1-B36	2	8.91	469.2		407	A04-M1-B10	3	2.07	422.1
5	A38-M1-B31	2	8.27	322.1		408	A04-M2-B10	3	2.2	422.1
6	A03-M1-B31	2	8.91	376.1		409	A05-M1-B10	3	2.3	500.1
7	A31-M1-B31	2	6.95	286.1		410	A05-M2-B10	3	2.41	500.1
8	A35-M1-B31	2	7.08	365.2		411	A06-M1-B10	3	1.85	354.1
9	A29-M1-B15	2	9.28	499.2		412	A07-M1-B10	3	2.17	440.1
10	A31-M1-B15	2	9.11	408.2		413	A07-M2-B10	3	2.28	440.1
11	A35-M1-B15	2	9.3	487.2		414	A08-M1-B10	3	2.3	488.1
12	A32-M1-B15	2	9.39	440.2		415	A08-M2-B10	3	2.41	488.1
13	A38-M1-B35	2	8.73	402.2		416	A09-M1-B10	3	2.14	464.2

1 14	A29-M1-B35	2	7.87	457.2	1	417	A10-M1-B10	3	2.24	458.1
15	A31-M1-B35		7.61	366.2	╁	418	A10-M1-B10	3	2.27	458.1
16	A35-M1-B35		7.82	445.2	\dagger	419	A11-M1-B10	3	2.2	470.1
17	A39-M1-B35	2	8.09	446.2	t	420	A11-M2-B10	3	2.27	470.1
18	A40-M1-B35	2	8.67	485.2	t	421	A12-M1-B10	3	2.05	380.2
19	A29-M1-B33	2	8.37	447.1	╁	422	A12-M1-B10	3	2.09	380.2
20	A38-M2-B36	2	9.16	386.2	+	423	A14-M1-B10	3	2.07	366.1
21	A45-M2-B36	2	9.27	476.2	╁	424	A15-M1-B10	3	2.33	449.1
22	A03-M2-B36	2	9.59	440.1	t	425	A16-M1-B10	3	2.19	429.1
23	A29-M2-B36	2	8.35	441.2	H	426	A18-M2-B10	3	2.4	440.1
24	A31-M2-B36	2	8.45	350.2	H	427	A18-M1-B10	3	2.3	440.1
25	A44-M2-B36	2	8.72	434.1	╁	428	A20-M1-B10	3	2.5	472.1
26	A46-M2-B36	2	8.61	460.2	+	429	A21-M1-B10	3	1.85	360.1
27	A35-M2-B36	2	8.26	429.2	┝	430	A22-M1-B10	3	2.74	540.1
28	A32-M2-B36	2	8.3	382.2	┝	431	A23-M1-B10	3	 	
29	A41-M2-B36	2	8.98	476.2	┝	432	A24-M1-B10	3	2.47	438.1 458.1
30	A39-M2-B36	2	8.52	430.2	H	433	A25-M1-B10	3	2.55	490.1
31	A40-M2-B36	2	9.05	469.2	H	434	A26-M1-B10	3	2.01	
32	A45-M2-B31	2	8.65	412.2	\vdash	435	A27-M2-B10	3		374.1
33	A03-M2-B31	2	9.01	376.1	-	436		3	2.41	448.2
34	A31-M2-B31	2	7.5	286.1	H	437	A02-M1-B11 A02-M2-B11	3	2.25	362.1
35	A44-M2-B31	2	7.87	370.1	H	437		3	2.3	362.1
36	A46-M2-B31	2	7.77	396.1	H	439	A03-M1-B11	3	2.55	430.0
37	A35-M2-B31	2	7.27	365.2	H	440	A03-M2-B11	3	2.59	430.0
38	A41-M2-B31	2	8.26	412.2	-		A04-M1-B11	3	2.25	380.1
39	A39-M2-B31	2	7.64		-	441	A04-M2-B11		2.31	380.1
40	A40-M2-B31	2	8.34	366.1 405.2	H	443	A05-M1-B11 A05-M2-B11	3	2.47	458.0
41	A29-M2-B15	2	9.39	499.2	Н	444	A06-M1-B11	3	2.52	458.0
42	A31-M2-B15	<u></u>	8.99	408.2	Н	445	A07-M2-B11	3	2.03	312.1
43	A35-M2-B15	2	9.35	487.2	-	446	A08-M1-B11	3	2.53	398.1 446.1
44	A32-M2-B15	2	9.42	440.2	Н	447	A08-M2-B11	3	2.52	446.1
45	A29-M2-B35	2	8.01	457.2	Н	448	A10-M1-B11	3	2.41	416.1
46	A31-M2-B35	2	8.03	366.2	Н	449	A10-M1-B11	3	2.39	416.1
47	A44-M2-B35	2	8.41		\exists		A11-M2-B11	3	2.38	428.1
48	A35-M2-B35	2	7.95	445.2	\dashv	451	A12-M2-B11	3	2.21	338.1
49	A32-M2-B35	1	5.21	398.2	\exists	452	A13-M2-B11	3	2.54	492.1
50	A41-M2-B35	2	8.7	492.2	1	453	A14-M1-B11	3	2.17	324.1
51	A38-M2-B33	2	9.32	392.1	H	454	A15-M1-B11	3	2.43	407.1
52	A03-M2-B33	2	9.75	446.0	+	455	A16-M1-B11	3	2.29	387.1
53	A29-M2-B33	2	8.56	447.1	+	456	A17-M1-B11	3	2.29	381.1
54	A44-M2-B33	2	8.9	440.0	+	457	A18-M2-B11	3	2.51	398.1
55	A46-M2-B33	2	8.81	466.1	1	458	A18-M1-B11	3	2.41	398.1
56	A35-M2-B33	2	8.46	435.1	\dashv		A20-M1-B11	3	2.61	430.1
57	A41-M2-B33	2	9.14	482.1	+		A21-M1-B11	3	1.94	318.1
58	A39-M2-B33	2	8.74	436.1	+	461	A22-M1-B11	3	2.85	498.1
59	A40-M2-B33	2	9.22	475.1	+	462	A23-M1-B11	3	2.57	396.1
60	A30-M1-B29	1	6.39	388.2	+		A24-M1-B11	3	2.46	416.1
61	A31-M1-B29	1	4.72	352.2	+		A25-M1-B11	3	2.40	448.1
62	A29-M1-B29	1	5.33	443.2	1		A26-M1-B11	3	2.13	332.1
63	A03-M1-B29	1	7.09	442.1	+		A27-M2-B11	3	2.13	406.1
64	A37-M1-B29	2	7.81	400.2	+		A01-M1-B12	3	2.11	376.1
	WIT DZ3		7.01	700.4	L	701	101-N11-D12	<u> </u>	۷.۱۱	3/0.1

65	A30-M2-B29	1	6.56	388.2]	468	A02-M1-B12	3	2.42	428.1
66	A31-M2-B29		8.33	352.2	T	469	A02-M2-B12	3	2.54	428.1
67	A29-M2-B29	1	5.5	443.2	t	470	A03-M1-B12	3	2.69	496.0
68	A03-M2-B29	1	7.22	442.1	+	471	A03-M2-B12	3	2.73	496.0
69	A41-M2-B01	1	6.56	448.2	H	472	A04-M1-B12	3	2.42	446.1
70	A32-M2-B32	1	5.34	368.2	H	473	A05-M1-B12	3	2.63	524.0
71	A47-M2-B32	2	8.63	454.1	十	474	A05-M2-B12	3	2.69	524.0
72	A48-M2-B32	1	7.31	448.1	-	475	A06-M1-B12	3	2.25	378.1
73	A43-M2-B32	1	5.33	366.2	H	476	A07-M1-B12	3	2.49	464.1
74	A33-M1-B32	1	5.32	416.2	H	477	A07-M1-B12	3	2.55	464.1
75	A35-M1-B32	1	5.33	415.2	H	478	A08-M1-B12	3	2.6	512.1
76	A31-M1-B01	1	4.7	322.1	┝	479	A09-M1-B12	3	2.54	488.1
77	A36-M1-B01	2	7.45	334.1		480	A09-M2-B12	3	2.56	488.1
78	A29-M1-B01	1	5.29	413.2		481	A10-M1-B12	<u>3</u>	2.64	482.1
79	A01-M1-B01	3	1.81	292.1	H	482	A10-M1-B12	3	2.63	482.1
80	A01-M2-B01	3	1.95	292.1	-	483	A11-M1-B12	3	2.57	494.1
81	A03-M1-B01	3	2.47	412.1	Н	484	A11-M2-B12	<u>3</u>	2.6	494.1
82	A03-M2-B01	3	2.55	412.1	Н	485	A12-M1-B12	3	2.49	404.1
83	A04-M1-B01	3	2.15	362.1		486	A13-M1-B12	3	2.75	558.1
84	A04-M2-B01	3	2.27	362.1	Н	487	A14-M1-B12	3	2.47	390.1
85	A05-M1-B01	3	2.39	440.0	Н	488	A15-M1-B12	<u>3</u> 3	2.67	473.1
86	A05-M2-B01	3	2.47	440.0	Н	489	A16-M1-B12	3	2.57	453.1
87	A06-M1-B01	3	1.93	294.1	Н	490	A17-M1-B12	3	2.39	447.1
88	A07-M1-B01	3	2.24	380.1	Н	491	A18-M2-B12	3	2.77	464.1
89	A07-M2-B01	3	2.35	380.1	Н	492	A18-M1-B12	3	2.67	464.1
90	A08-M1-B01	3	2.39	428.1		493	A20-M1-B12	3	2.85	496.1
91	A09-M1-B01	3	2.29	404.2	Н	494	A21-M1-B12	3	2.31	384.1
92	A09-M2-B01	3	2.25	404.2	Н	495	A22-M1-B12	3	3.05	564.1
93	A10-M1-B01	3	2.31	398.1	\dashv	496	A23-M1-B12	3	2.83	462.1
94	A10-M2-B01	3	2.36	398.1	\dashv	497	A24-M1-B12	3	2.71	482.1
95	A11-M1-B01	3	2.26	410.1		498	A25-M1-B12	3	2.89	514.1
96	A11-M2-B01	3	2.31	410.1		499	A26-M1-B12	3	2.43	398.1
97	A12-M1-B01	3	2.12	320.1	\exists	500	A27-M2-B12	3	2.77	472.1
98	A13-M2-B01	3	2.5	474.1	-		A01-M1-B13	3	1.39	
99	A13-M1-B01	3	2.53	474.1	+		A02-M1-B13	3	1.7	393.2
100	A14-M1-B01	3	2.13	306.1	7		A03-M1-B13	3	2	461.1
101	A15-M1-B01	3	2.39	389.1	1	504	A12-M1-B13	3	1.67	369.2
102	A16-M1-B01	3	2.26	369.1	7	505	A13-M1-B13	3	2.08	523.2
103	A17-M1-B01	3	2.04	363.1	7	506	A14-M1-B13	3	1.7	355.2
104	A18-M2-B01	3	2.45	380.1	\dashv	507	A18-M2-B13	3	2.07	429.2
105	A18-M1-B01	3	2.37	380.1	1		A20-M1-B13	3	2.29	461.2
106	A20-M1-B01	3	2.58	412.1	+		A22-M1-B13	3	2.5	529.2
107	A21-M1-B01	3	1.9	300.1	+		A27-M2-B13	3	2.06	437.2
	A22-M1-B01	3	2.81	480.1	1	511	A01-M1-B14	3	1.95	336.1
109	A23-M1-B01	3	2.53	378.1	\dagger	512	A01-M2-B14	3	2.04	336.1
110	A24-M1-B01	3	2.42	398.1	†	513	A02-M1-B14	3	2.27	388.2
111	A25-M1-B01	3	2.63	430.1	\dagger		A03-M1-B14	3	2.57	456.1
	A26-M1-B01	3	2.07	314.1	+		A03-M2-B14	3	2.61	456.1
_	A27-M2-B01	3	2.47	388.2	†		A04-M1-B14	3	2.28	406.1
114	A01-M1-B02	3	1.82	336.1	†		A04-M2-B14	3	2.38	406.1
115	A01-M2-B02	3	1.97	336.1	+		A05-M1-B14	3	2.51	484.1
				300	_		. 100 WIT DIT		<u></u> .01	10 6.1

1446	1400 M4 D00	۱ ۵	مدما	1 000 4	ı	ا = ده	langua na na	1 -	1	1
116	A02-M1-B02		2.14		╀	519			2.57	484.1
117	A02-M2-B02	3	2.26		\downarrow	520			2.07	+
118	A03-M1-B02	3	2.44		+	521	A07-M1-B14		2.43	
119	A04-M1-B02	3	2.14	-	\downarrow	522	A07-M2-B14		2.45	
120	A04-M2-B02	3	2.27		-	523		3	2.49	472.1
121	A05-M1-B02	3	2.36		\downarrow	524		3	2.55	472.1
122	A05-M2-B02	3	2.46			525	A09-M1-B14	3	2.41	448.2
123	A06-M1-B02	3	1.92		L	526	A09-M2-B14	3	2.41	448.2
124	A07-M1-B02	3	2.29	424.1	L	527	A10-M1-B14	3	2.51	442.1
125	A07-M2-B02	3	2.35	 	L	528	A10-M2-B14	3	2.51	442.1
126	A08-M1-B02	3	2.35	472.1		529	A11-M1-B14	3	2.46	454.2
127	A08-M2-B02	3	2.46	472.1		530	A11-M2-B14	3	2.47	454.2
128	A09-M1-B02	3	2.2	448.1		531	A12-M2-B14	3	2.35	364.2
129	A09-M2-B02	3	2.25	448.1		532	A13-M1-B14	3	2.64	518.2
130	A10-M1-B02	3	2.3	442.1		533	A14-M1-B14	3	2.27	350.1
131	A11-M1-B02	3	2.25	454.1		534	A15-M1-B14	3	2.51	433.1
132	A11-M2-B02	3	2.3	454.1	Γ	535	A16-M1-B14	3	2.39	413.2
133	A12-M1-B02	3	2.1	364.1		536	A17-M1-B14	3	2.19	407.2
134	A13-M2-B02	3	2.48	518.1		537	A18-M2-B14	3	2.59	424.1
135	A13-M1-B02	3	2.49	518.1		538	A18-M1-B14	3	2.5	424.1
136	A14-M1-B02	3	2.11	350.1		539	A20-M1-B14	3	2.7	456.1
137	A15-M1-B02	3	2.39	433.1		540	A21-M1-B14	3	2.09	344.1
138	A16-M1-B02	3	2.26	413.1		541	A22-M1-B14	3	2.93	524.1
139	A17-M1-B02	3	2.06	407.1	П	542	A23-M1-B14	3	2.66	422.1
140	A18-M2-B02	3	2.47	424.1	П	543	A24-M1-B14	3	2.54	442.1
141	A18-M1-B02	3	2.37	424.1		544	A25-M1-B14	3	2.75	474.1
142	A20-M1-B02	3	2.56	456.1	П	545	A26-M1-B14	3	2.24	358.1
143	A21-M1-B02	3	1.93	344.1	П	546	A27-M2-B14	3	2.57	432.2
144	A22-M1-B02	3	2.79	524.1		547	A01-M1-B15	3	2.32	378.2
145	A23-M1-B02	3	2.53	422.1	П	548	A01-M2-B15	3	2.43	378.2
146	A24-M1-B02	3	2.41	442.1	П	549	A02-M1-B15	3	2.61	430.2
147	A25-M1-B02	3	2.61	474.1	П	550	A02-M2-B15	3	2.65	430.2
148	A26-M1-B02	3	2.1	358.1	П	551	A03-M1-B15	3	2.85	498.1
149	A27-M2-B02	3	2.48	432.1	П	552	A04-M1-B15	3	2.61	448.2
150	A01-M1-B03	3	2.01	342.1	T	553	A04-M2-B15	3	2.65	448.2
151	A01-M2-B03	3	2.13	342.1	Ħ	554	A05-M1-B15	3	2.79	526.1
152	A02-M1-B03	3	2.32	394.1	T	555	A05-M2-B15	3	2.84	526.1
153	A02-M2-B03	3	2.42	394.1		556	A06-M1-B15	3	2.45	380.2
154	A03-M1-B03	3	2.61	462.1	T	557	A07-M1-B15	3	2.67	466.2
155	A04-M1-B03	3	2.32	412.1	7	558	A08-M1-B15	3	2.76	514.2
156	A04-M2-B03	3	2.43	412.1	7	559	A08-M2-B15	3	2.81	514.2
157	A05-M1-B03	3	2.54	490.0	\dagger		A09-M1-B15	3	2.73	490.2
158	A06-M1-B03	3	2.13	344.1	7	561	A09-M2-B15	3	2.72	490.2
159	A06-M2-B03	3	2.24	344.1	\dagger		A10-M1-B15	3	2.81	484.2
160	A07-M1-B03	3	2.4	430.1	+		A11-M1-B15	3	2.75	496.2
161	A07-M2-B03	3	2.5	430.1	+		A11-M1-B15	3	2.75	496.2
	A08-M1-B03	3	2.52	478.1	+		A12-M1-B15	3	2.67	406.2
	A08-M2-B03	3	2.61	478.1	+		A12-W1-B15	3	2.67	406.2
	A09-M1-B03	3	2.36	454.2	+		A12-M2-B15	3	2.92	560.2
	A09-M2-B03	3	2.41	454.2	+		A13-M1-B15	3		560.2
	A10-M1-B03	3	2.46	448.1	+				2.93	
.00	, 110 MIT-003	J	2.40	770.1	L	569	A20-M1-B15	3	3.05	498.2

168							1	1	1	1	1
169	167	A11-M1-B03	3	2.4	460.1		570	A02-M1-B16	3	2.1	312.1
169	168	A11-M2-B03	3	2.46	460.1		571	A05-M1-B16	3	2.37	408.0
170			3	2.29	370.1		572	A06-M1-B16	3	1.74	262.1
171			3	2.37	370.1	Ţ	573	A08-M1-B16	3	2.41	396.1
172 A15-M1-B03 3 2.57 439.1 575 A14-M1-B16 3 2.74 1 37.1 1 37.1 1 37.1 1 37.1 1 37.1 37.1 1 37.1 3 1 37.1 3 1 37.1 3 1 37.1 37.1 1 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 37.1 3 3 3 3 3 3 3 3 3				2.34	356.1	1	574	A11-M1-B16	3	2.21	378.1
173				2.57	439.1	T	575	A14-M1-B16	3	1.72	274.1
174 A17-M1-B03 3 2.26 413.2 577 A16-M1-B16 3 1.95 337.1 175 A18-M2-B03 3 2.65 430.1 578 A17-M1-B16 3 1.67 331.1 176 A18-M1-B03 3 2.55 430.1 579 A18-M1-B16 3 2.06 348.1 177 A20-M1-B03 3 2.75 462.1 580 A04-M1-B16 3 2.11 330.1 178 A21-M1-B03 3 2.77 350.1 581 A20-M1-B16 3 2.31 380.1 179 A22-M1-B03 3 2.97 530.1 582 A21-M1-B16 3 2.33 380.1 180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.29 364.1 586 A22-M1-B16 3 2.21 366.1 183 A26-M1-B03 3 2.29 364.1 586 A22-M1-B16 3 2.37 398.1 184 A27-M2-B03 3 2.66 438.2 587 A26-M1-B16 3 2.37 398.1 185 A01-M1-B04 3 1.62 282.1 588 A15-M1-B17 3 2.23 446.1 186 A01-M2-B04 3 1.76 282.1 588 A15-M1-B17 3 2.23 446.1 186 A01-M2-B04 3 2.31 334.1 590 A17-M1-B17 3 2.39 426.1 189 A03-M1-B04 3 2.31 334.1 590 A17-M1-B17 3 2.39 426.1 189 A03-M2-B04 3 2.41 402.0 593 A21-M1-B17 3 2.39 469.1 190 A03-M2-B04 3 2.21 352.1 594 A22-M1-B17 3 2.33 469.1 192 A04-M2-B04 3 2.21 352.1 595 A23-M1-B17 3 2.33 469.1 192 A04-M2-B04 3 2.21 352.1 595 A23-M1-B17 3 2.33 469.1 193 A05-M1-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 337.1 195 A06-M1-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 337.1 196 A06-M2-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 370.1 198 A07-M2-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 347.0 199 A08-M1-B04 3 2.21 370.1 600 A06-M1-B18 3 2.37 384.0 200 A08-M2-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 348.0 200 A08-M2-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37 349.0 200 A08-M2-B04 3 2.21 370.1 600 A05-M1-B18 3 2.37					419.1	T	576	A15-M1-B16	3	2.11	357.1
175 A18-M2-B03 3 2.65 430.1 578 A17-M1-B16 3 1.67 331.1 176 A18-M1-B03 3 2.55 430.1 579 A18-M1-B16 3 2.06 348.1 177 A20-M1-B03 3 2.75 462.1 580 A04-M1-B16 3 2.11 330.1 178 A21-M1-B03 3 2.77 350.1 581 A20-M1-B16 3 2.3 380.1 180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.8 480.1 585 A24-M1-B16 3 2.21 366.1 183 A26-M1-B03 3 2.29 364.1 586 A24-M1-B16 3 2.37 396.1 186 A01-M1-B03 3 <					413.2	1	577	A16-M1-B16	3	1.95	337.1
176 A18-M1-B03 3 2.55 430.1 579 A18-M1-B16 3 2.06 348.1 177 A20-M1-B03 3 2.75 462.1 580 A04-M1-B16 3 2.11 330.1 178 A21-M1-B03 3 2.17 350.1 581 A20-M1-B16 3 2.3 480.1 180 A23-M1-B03 3 2.59 530.1 582 A21-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.58 448.1 182 A25-M1-B03 3 2.59 448.1 586 A25-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.21 366.1 183 A26-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.11 366.1 185 A01-M2-B03 3	·					1	578	A17-M1-B16	3	1.67	331.1
177 A20-M1-B03 3 2.75 462.1 580 A04-M1-B16 3 2.11 330.1 178 A21-M1-B03 3 2.17 350.1 581 A20-M1-B16 3 2.3 380.1 179 A22-M1-B03 3 2.97 530.1 582 A21-M1-B16 3 2.3 380.1 180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.52 244.1 181 A24-M1-B03 3 2.8 480.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.8 480.1 586 A24-M1-B16 3 2.11 366.1 183 A26-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.37 398.1 184 A27-M2-B03 3 2.66 438.2 587 A26-M1-B16 3 1.71 282.1 186 A01-M1-B04 3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>7</td><td>579</td><td>A18-M1-B16</td><td>3</td><td>2.06</td><td>348.1</td></td<>						7	579	A18-M1-B16	3	2.06	348.1
178 A21-M1-B03 3 2.17 350.1 581 A20-M1-B16 3 2.3 380.1 179 A22-M1-B03 3 2.97 530.1 582 A21-M1-B16 3 1.47 288.1 180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.17 366.1 183 A26-M1-B03 3 2.66 438.2 587 A26-M1-B16 3 1.71 282.1 185 A01-M1-B04 3 1.62 282.1 588 A15-M1-B16 3 1.71 282.1 186 A01-M2-B04 3 1.76 282.1 588 A15-M1-B17 3 2.09 426.1 187 A02-M2-B04 3						7	580	A04-M1-B16	3	2.11	330.1
179 A22-M1-B03 3 2.97 530.1 582 A21-M1-B16 3 1.47 268.1 180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.29 364.1 585 A24-M1-B16 3 2.21 366.1 183 A26-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.37 398.1 184 A27-M2-B03 3 2.66 438.2 587 A26-M1-B16 3 2.37 398.1 185 A01-M1-B04 3 1.62 282.1 588 A15-M1-B17 3 2.23 446.1 186 A01-M2-B04 3 1.76 282.1 589 A16-M1-B17 3 2.09 426.1 187 A02-M1-B04 3 1.99 334.1 590 A17-M1-B17 3 2.39 426.1 188 A02-M2-B04 3 2.11 334.1 591 A18-M1-B17 3 2.39 426.1 189 A03-M1-B04 3 2.32 402.0 592 A20-M1-B17 3 2.39 436.1 190 A03-M2-B04 3 2.11 352.1 594 A22-M1-B17 3 2.39 435.1 191 A04-M1-B04 3 2.01 352.1 594 A22-M1-B17 3 2.63 537.1 192 A04-M2-B04 3 2.13 352.1 595 A23-M1-B17 3 2.33 435.1 193 A05-M1-B04 3 2.24 430.0 596 A24-M1-B17 3 2.33 435.1 194 A05-M2-B04 3 2.34 430.0 597 A25-M1-B17 3 2.33 435.1 195 A06-M1-B04 3 2.34 430.0 597 A25-M1-B17 3 2.34 487.1 196 A06-M2-B04 3 2.34 430.0 597 A25-M1-B18 3 2.62 422.0 197 A07-M1-B04 3 2.21 370.1 600 A05-M1-B18 3 2.63 537.0 199 A08-M1-B04 3 2.25 418.1 602 A08-M1-B18 3 2.65 488.0 200 A08-M2-B04 3 2.31 394.1 605 A12-M1-B18 3 2.65 488.0 201 A09-M1-B04 3 2.34 400.1 607 A15-M1-B18 3 2.61 467.0 202 A09-M2-B04 3 2.34 30.1 609 A17-M1-B18 3 2.61 467.0 203 A10-M1-B04 3 2.35 448.1 602 A08-M1-B18 3 2.61 467.0 204 A11-M1-B04 3 2.34 400.1 607 A15-M1-B18 3 2.63 440.0 205 A11-M2-B04 3 2.35 464.1 610 A18-M1-B18 3 2.61 458.0 208 A13-M1-B04						7	581	A20-M1-B16	3	2.3	380.1
180 A23-M1-B03 3 2.71 428.1 583 A22-M1-B16 3 2.58 448.1 181 A24-M1-B03 3 2.59 448.1 584 A23-M1-B16 3 2.22 346.1 182 A25-M1-B03 3 2.8 480.1 585 A24-M1-B16 3 2.11 366.1 183 A26-M1-B03 3 2.29 364.1 586 A25-M1-B16 3 2.37 398.1 184 A27-M2-B03 3 2.66 438.2 587 A26-M1-B16 3 1.71 288.1 185 A01-M1-B04 3 1.62 282.1 588 A15-M1-B17 3 2.23 446.1 186 A01-M2-B04 3 1.76 282.1 588 A15-M1-B17 3 2.29 426.1 187 A02-M1-B04 3 1.99 334.1 590 A17-M1-B17 3 2.17 437.1 188 A02-M2-B04 3 2.11 334.1 591 A18-M1-B17 3 2.17 437.1 188 A03-M1-B04 3 2.32 402.0 592 A20-M1-B17 3 2.39 469.1 190 A03-M2-B04 3 2.41 402.0 593 A21-M1-B17 3 2.39 469.1 191 A04-M1-B04 3 2.31 352.1 594 A22-M1-B17 3 2.33 435.1 192 A04-M2-B04 3 2.13 352.1 595 A23-M1-B17 3 2.33 435.1 193 A05-M1-B04 3 2.24 430.0 596 A24-M1-B17 3 2.24 455.1 194 A05-M2-B04 3 2.34 430.0 596 A24-M1-B17 3 2.43 487.1 195 A06-M1-B04 3 1.75 284.1 599 A02-M1-B18 3 2.62 422.0 197 A07-M1-B04 3 2.21 370.1 600 A05-M1-B18 3 2.62 422.0 199 A08-M1-B04 3 2.25 418.1 602 A08-M1-B18 3 2.62 422.0 200 A08-M2-B04 3 2.35 418.1 602 A08-M1-B18 3 2.65 506.0 201 A09-M1-B04 3 2.35 418.1 603 A10-M1-B18 3 2.55 488.0 202 A09-M2-B04 3 2.13 384.1 604 A11-M1-B18 3 2.65 506.0 204 A11-M1-B04 3 2.15 388.1 606 A14-M1-B18 3 2.61 467.0 205 A11-M2-B04 3 2.15 384.1 606 A14-M1-B18 3 2.61 467.0 206 A12-M1-B04 3 2.15 384.1 606 A14-M1-B18 3 2.61 467.0 206 A12-M1-B04 3 2.15 384.1 606 A14-M1-B18 3 2.61 467.0 206 A12-M1-B04 3 2.35 448.1 607 A15-M1-B18 3 2.61 467.0 206 A12-M1-B04 3 2.35 448.1 608 A16-M1-B18 3 2.61 4		I				Ť		A21-M1-B16	3	1.47	268.1
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212 A17-M1-B04 3 1.87 353.1 615 A23-M1-B18 3 2.77 456.0	<u> </u>					1	+				
213 A18-M2-B04 3 2.31 370.1 616 A24-M1-B18 3 2.63 476.0	213					1					
214 A18-M1-B04 3 2.22 370.1 617 A25-M1-B18 3 2.83 508.0	214					1					
215 A20-M1-B04 3 2.43 402.1 618 A26-M1-B18 3 2.34 392.0	215					1					
216 A21-M1-B04 3 1.69 290.1 619 A02-M1-B19 3 2.45 362.1	216					1					
217 A22-M1-B04 3 2.69 470.1 620 A05-M1-B19 3 2.7 458.0	217	A22-M1-B04	3	2.69	470.1	\perp	<u> 620</u>	A05-M1-B19	3	2.7	458.0

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218	A23-M1-B04	3	2.39	368.1			A06-M1-B19	3	2.2	312.1
219	A24-M1-B04	3	2.27	388.1		622	A08-M1-B19	3	2.7	446.1
220	A25-M1-B04	3	2.49	420.1		623	A10-M1-B19	3	2.56	416.1
221	A26-M1-B04	3	1.9	304.1		624	A11-M1-B19	3	2.5	428.1
222	A27-M2-B04	3	2.31	378.1	Ī	625	A12-M1-B19	3	2.33	338.1
223	A01-M1-B05	3	1.84	335.1		626	A14-M1-B19	3	2.17	324.1
224	A01-M2-B05	3	2.01	335.1	Ţ	627	A15-M1-B19	3	2.45	407.1
225	A02-M1-B05	3	2.2	387.2		628	A16-M1-B19	3	2.31	387.1
226	A02-M2-B05	3	2.32	387.2	1	629	A17-M1-B19	3	2.1	381.1
227	A03-M1-B05	3	2.51	455.1		630	A18-M1-B19	3	2.43	398.1
228	A04-M1-B05	3	2.2	405.2	Ţ	631	A04-M1-B19	3	2.46	380.1
229	A04-M2-B05	3	2.33	405.2	Ī	632	A20-M1-B19	3	2.62	430.1
230	A05-M1-B05	3	2.43	483.1	1	633	A21-M1-B19	3	1.98	318.1
231	A05-M2-B05	3	2.53	483.1		634	A22-M1-B19	3	2.85	498.1
232	A06-M1-B05	3	1.97	337.2		635	A23-M1-B19	3	2.58	396.1
233	A06-M2-B05	3	2.12	337.2		636	A24-M1-B19	3	2.47	416.1
234	A07-M1-B05	3	2.29	423.2	T	637	A25-M1-B19	3	2.68	448.1
235	A07-M2-B05	3	2.4	423.2	7	638	A26-M1-B19	3	2.15	332.1
236	A08-M1-B05	3	2.43	471.2	٦	639	A02-M1-B20	3	2.82	416.2
237	A08-M2-B05	3	2.53	471.2		640	A05-M1-B20	3	3.06	512.1
238	A09-M1-B05	3	2.26	447.2		641	A06-M1-B20	3	2.65	366.2
239	A09-M2-B05	3	2.3	447.2		642	A08-M1-B20	3	3.03	500.2
240	A10-M2-B05	3	2.4	441.1		643	A10-M1-B20	3	2.91	470.2
241	A11-M1-B05	3	2.31	453.2	П	644	A11-M1-B20	3	2.84	482.2
242	A11-M2-B05	3	2.36	453.2	Н	645	A12-M1-B20	3	2.73	392.2
243	A12-M1-B05	3	2.18	363.2	Η	646	A14-M1-B20	3	2.59	378.2
244	A13-M2-B05	3	2.54	517.2	П	647	A15-M1-B20	3	2.79	461.2
245	A13-M1-B05	3	2.57	517.2	H	648	A16-M1-B20	3	2.69	441.2
246	A14-M1-B05	3	2.19	349.2	-	649	A17-M1-B20	3	2.53	435.2
247	A15-M1-B05	3	2.46	432.2		650	A18-M1-B20	3	2.8	452.2
248	A16-M1-B05	3	2.32	412.2	r	651	A04-M1-B20	3	2.83	434.2
249	A17-M1-B05	3	2.11	406.2	H	652	A20-M1-B20	3	2.98	484.2
250	A18-M2-B05	3	2.53	423.2	Ì	653	A21-M1-B20	3	2.44	372.2
251	A21-M1-B05		1.98	·	Γ	654	A22-M1-B20	3	3.18	552.2
252	A26-M1-B05		2.15	357.2	T	655	A23-M1-B20	3	2.96	450.2
253	A27-M2-B05	3	2.53	431.2	┢	656	A24-M1-B20	3	2.83	470.2
254	A01-M1-B06		2.07	360.1	r	657	A25-M1-B20	3	3.02	502.2
255	A01-M2-B06		2.22	360.1	T	658	A26-M1-B20	3	2.57	386.2
256	A02-M1-B06		2.44	412.1	1	659	A02-M1-B21	3	2.64	396.1
257	A02-M2-B06		2.48	412.1	T	660	A05-M1-B21	3	2.89	492.0
258	A03-M1-B06		2.65	480.0	t	661	A06-M1-B21	3	2.41	346.1
259	A03-M1-B06		2.75	480.0	T	662	A08-M1-B21	3	2.87	480.1
260	A04-M1-B06		2.39	430.1	t	663	A10-M1-B21	3	2.74	450.1
261	A04-M1-B06		2.49	430.1	-	664		3	2.67	462.1
262	A05-M1-B06		2.59	508.0	†	665		3	2.56	
263	A05-M1-B06		2.66	508.0	t	666		3	2.39	358.1
264	A06-M1-B06		2.21	362.1	t	667	A15-M1-B21	3	2.62	441.1
265			2.32		\dagger	668		3	2.5	421.1
			2.51	448.1	t	669		3	2.31	415.1
266	A07-M2-B06	 	2.56	 	\dagger	670		3	2.62	432.1
267	A08-M1-B06	 	2.57	496.1	+	671	A04-M1-B21	3	2.65	+
268	MOO-IVI I-DUO	_ 3	2.01	750.1		1011	1,104-1011-DZ1		12.55	

269 A08-M2-B06 3 2.66 496.11 672 A20-M1-B21 3 2.51 1-9-11 270 A09-M1-B06 3 2.48 472.1 674 A22-M1-B21 3 2.21 352.1 271 A09-M2-B06 3 2.61 466.1 676 A23-M1-B21 3 2.07 480.1 273 A10-M2-B06 3 2.61 466.1 676 A23-M1-B21 3 2.65 450.1 273 A10-M2-B06 3 2.45 478.1 677 A25-M1-B21 3 2.64 480.1 276 A12-M2-B06 3 2.42 388.1 679 A02-M1-B22 3 2.86 364.1 278 A14-M1-B06 3 2.43 374.1 681 A06-M1-B22 3 2.26 382.2 280 A17-M1-B06 3 2.35 431.1 683 A06-M1-B22 3 2.67 504.2 281 A18-M1-B06 3	1		- 1	0.00	400.4	1	070	lago Ma Boal	2	2.81	464.1
271 A09-M2-B06 3		A08-M2-B06	3	2.66	496.1	4	672	A20-M1-B21	3		
277 A10-M1-B06 3				— 		4					
A1-M-M2-B06 3	271	A09-M2-B06				4					
274	272	-				4					
275 A1-MIT-BOG 3 2.36 388.1 678 A26-MI-B21 3 2.36 366.1 276 A12-M2-B06 3 2.42 388.1 679 A02-MIT-B22 3 2.63 438.2 277 A13-M2-B06 3 2.41 374.1 680 A05-MI-B22 3 2.63 438.2 278 A14-M1-B06 3 2.34 374.1 681 A06-M1-B22 3 2.48 382.2 279 A16-M1-B06 3 2.36 431.1 682 A08-M1-B22 3 2.48 522.2 280 A17-M1-B06 3 2.24 448.1 685 A12-M1-B22 3 2.65 442.1 281 A18-M1-B06 3 2.27 368.1 685 A12-M1-B22 3 2.62 4483.2 282 A24-M1-B06 3 2.27 368.1 688 A16-M1-B22 3 2.62 483.2 285 A22-M1-B06 3	273	A10-M2-B06				4					
275 A12-M12-B06 3 2.42 388.1 679 A02-M1-B22 3 2.63 438.2 277 A13-M2-B06 3 2.71 542.1 680 A05-M1-B22 3 2.67 534.1 278 A14-M1-B06 3 2.43 374.1 681 A06-M1-B22 3 2.65 522.2 280 A17-M1-B06 3 2.52 437.1 683 A08-M1-B22 3 2.65 522.2 280 A17-M1-B06 3 2.36 431.1 683 A10-M1-B22 3 2.67 504.2 281 A18-M1-B06 3 2.74 448.1 685 A12-M1-B22 3 2.67 504.2 283 A20-M1-B06 3 2.27 368.1 685 A12-M1-B22 3 2.62 483.2 285 A22-M1-B06 3 2.27 368.1 689 A17-M1-B22 3 2.62 483.2 286 A23-M1-B06 3	274	A11-M1-B06				_		<u> </u>			
277 A13-M2-B06 3 2.71 542.1 680 A05-M1-B22 3 2.87 534.1 278 A14-M1-B06 3 2.43 374.1 681 A06-M1-B22 3 2.42 388.2 279 A16-M1-B06 3 2.52 437.1 682 A08-M1-B22 3 2.66 522.2 280 A17-M1-B06 3 2.64 448.1 683 A10-M1-B22 3 2.67 504.2 281 A18-M2-B06 3 2.64 448.1 686 A14-M1-B22 3 2.67 504.2 282 A18-M1-B06 3 2.81 480.1 686 A14-M1-B22 3 2.67 400.2 284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.62 483.2 285 A22-M1-B06 3 2.67 466.1 699 A17-M1-B22 3 2.62 483.2 287 A24-M1-B06 3	275	A12-M1-B06		2.36		_					
277 Ala-Mi-Bolo 3 2.43 374.1 681 A06-M1-B22 3 2.42 388.2 278 A16-M1-B06 3 2.52 437.1 682 A08-M1-B22 3 2.66 522.2 280 A17-M1-B06 3 2.36 431.1 683 A10-M1-B22 3 2.67 504.2 281 A18-M2-B06 3 2.36 448.1 684 A11-M1-B22 3 2.57 504.2 282 A18-M1-B06 3 2.81 480.1 686 A14-M1-B22 3 2.53 414.2 284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.51 463.2 285 A22-M1-B06 3 2.57 486.1 689 A17-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.66 477.2 288 A26-M1-B06 3	276	A12-M2-B06				_					
279 Al-H-MI-BOG 3 2.52 437.1 682 A08-MI-B22 3 2.86 522.2 280 A17-MI-B06 3 2.36 431.1 683 A10-MI-B22 3 2.73 492.1 281 A18-MI-B06 3 2.74 448.1 685 A12-MI-B22 3 2.67 504.2 283 A20-MI-B06 3 2.81 480.1 686 A14-MI-B22 3 2.4 400.2 284 A21-MI-B06 3 2.27 368.1 686 A14-MI-B22 3 2.62 483.2 285 A22-MI-B06 3 2.02 548.1 688 A16-MI-B22 3 2.61 467.2 287 A24-MI-B06 3 2.67 466.1 690 A18-MI-B22 3 2.64 458.2 289 A26-MI-B06 3 2.85 498.1 691 A04-MI-B22 3 2.64 456.2 289 A26-MI-B06 3	277	A13-M2-B06				4					
278 AIGHT-MI-BOG 3 2.36 431.1 883 A10-MI-B22 3 2.73 492.1 280 A17-MI-B06 3 2.74 448.1 684 A11-MI-B22 3 2.67 504.2 282 A18-MI-B06 3 2.64 448.1 685 A12-MI-B22 3 2.67 504.2 284 A21-MI-B06 3 2.27 368.1 686 A14-MI-B22 3 2.62 483.2 285 A22-MI-B06 3 3.02 548.1 688 A16-MI-B22 3 2.61 463.2 286 A23-MI-B06 3 2.67 466.1 690 A17-MI-B22 3 2.61 463.2 287 A24-MI-B06 3 2.67 486.1 699 A17-MI-B22 3 2.6 474.2 288 A25-MI-B06 3 2.83 498.1 691 A04-MI-B22 3 2.6 474.2 289 A26-MI-B07 3	278	A14-M1-B06				4					
281 A18-M2-B06 3 2.74 448.1 684 A11-M1-B22 3 2.67 504.2 282 A18-M1-B06 3 2.64 448.1 685 A12-M1-B22 3 2.53 414.2 283 A20-M1-B06 3 2.81 480.1 686 A14-M1-B22 3 2.24 400.2 284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.79 446.1 689 A17-M1-B22 3 2.6 474.2 287 A24-M1-B06 3 2.67 466.1 690 A18-M1-B22 3 2.6 475.2 289 A26-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.6 475.2 289 A26-M1-B06 3 2.74 456.1 693 A21-M1-B22 3 2.6 456.2 290 A27-M2-B06 3 <td< td=""><td>279</td><td>A16-M1-B06</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td></td<>	279	A16-M1-B06				4					
282 A18-M1-B06 3 2.64 448.1 685 A12-M1-B22 3 2.53 414.2 283 A20-M1-B06 3 2.81 480.1 686 A14-M1-B22 3 2.4 400.2 284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.62 483.2 285 A22-M1-B06 3 3.02 548.1 688 A16-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.79 446.1 689 A17-M1-B22 3 2.32 457.2 287 A24-M1-B06 3 2.67 466.1 690 A18-M1-B22 3 2.6 474.2 288 A25-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.6 474.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M1-B07 3 2.21 360.0 694 A22-M1-B22 3 3.02 574.1 292 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.63 492.1 293 A02-M1-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 696 A24-M1-B22 3 2.36 408.2 295 A03-M1-B07 3 2.65 430.0 699 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.65 430.0 699 A26-M1-B23 3 2.55 296 A04-M1-B07 3 2.65 430.0 699 A26-M1-B23 3 2.55 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.55 300 A06-M2-B07 3 2.67 362.0 702 A10-M1-B23 3 2.59 450.0 298 A05-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.49 460.0 301 A07-M1-B07 3 2.67 472.1 708 A18-M1-B23 3 2.49 400.0 302 A07-M2-B07 3 2.67 472.1 708 A18-M1-B23 3 2.49 400.0 303 A08-M1-B07 3 2.67 472.1 709 A18-M1-B23 3 2.57 402.0 304 A08-M2-B07 3 2.68 478.0 710 A04-M1-B23 3 2.57 402.0 305 A09-M2-B07 3 2.68 478.0 710 A04-M1-B23 3 2.57 402.0 306 A09-M2-B07 3 2.68 478.0 710 A04-M1-B23 3 2.57 402.0 307 A10-M1-B07 3 2.68 478.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 436.0 310 A12-M1-B07 3	280	A17-M1-B06		2.36	431.1						
283 A20-M1-B06 3 2.81 480.1 686 A14-M1-B22 3 2.4 400.2 284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.62 483.2 285 A22-M1-B06 3 3.02 548.1 688 A16-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.67 446.1 689 A17-M1-B22 3 2.54 456.2 287 A24-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.64 456.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.64 456.2 289 A26-M1-B06 3 2.37 380.0 693 A21-M1-B22 3 2.03 394.1 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.03 492.1 291 A01-M2-B07 3	281	A18-M2-B06		2.74							
284 A21-M1-B06 3 2.27 368.1 687 A15-M1-B22 3 2.62 483.2 285 A22-M1-B06 3 3.02 548.1 688 A16-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.79 446.1 689 A17-M1-B22 3 2.54 457.2 288 A25-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.6 474.2 288 A25-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.6 475.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M2-B07 3 2.25 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 <t< td=""><td>282</td><td>A18-M1-B06</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	282	A18-M1-B06									
285 A22-M1-B06 3 3.02 548.1 688 A16-M1-B22 3 2.51 463.2 286 A23-M1-B06 3 2.79 446.1 689 A17-M1-B22 3 2.32 457.2 287 A24-M1-B06 3 2.67 466.1 690 A18-M1-B22 3 2.6 474.2 288 A25-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.6 456.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.8 456.2 290 A07-M2-B06 3 2.27 456.1 693 A21-M1-B22 3 2.8 480.2 291 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.63 492.1 292 A03-M1-B07 3	283	A20-M1-B06				Ц					
286 A23-M1-B06 3 2.79 446.1 689 A17-M1-B22 3 2.32 457.2 287 A24-M1-B06 3 2.67 466.1 690 A18-M1-B22 3 2.6 474.2 288 A25-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.64 456.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M2-B07 3 2.21 360.0 694 A22-M1-B22 3 2.77 472.1 292 A01-M2-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 293 A02-M1-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 <	284	A21-M1-B06		2.27			687				
287 A24-M1-B06 3 2.67 466.1 690 A18-M1-B22 3 2.6 474.2 288 A25-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.64 456.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M1-B07 3 2.21 360.0 694 A22-M1-B22 3 2.02 574.1 292 A01-M2-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.65 430.0 699 A02-M1-B23 3 2.55 384.0 296 A04-M1-B07 3 <	285	A22-M1-B06	3	3.02	548.1		688				
288 A25-M1-B06 3 2.85 498.1 691 A04-M1-B22 3 2.64 456.2 289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M1-B07 3 2.21 360.0 694 A22-M1-B22 3 2.23 394.1 292 A01-M2-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.55 430.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 298 A05-M1-B07 3 2.65 430.0 700 A06-M1-B23 3 2.55 384.0 298 A05-M1-B07 3 2.65 430.0 700 A06-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.27 360.0 302 A07-M2-B07 3 2.61 448.0 704 A12-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.57 449.0 304 A08-M2-B07 3 2.81 496.0 707 A16-M1-B23 3 2.57 449.0 304 A08-M2-B07 3 2.65 472.1 708 A17-M1-B23 3 2.57 449.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.57 402.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 712 A21-M1-B23 3 2.57 402.0 309 A11-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 309 A11-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 309 A11-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 309 A11-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 301 A12-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A13-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A13-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A13-M2-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714 A20-M1-B23 3 2.57 402.0 314 A16-M1-B07 3 2.68 478.0 714	286	A23-M1-B06		2.79	446.1		689				
289 A26-M1-B06 3 2.39 382.1 692 A20-M1-B22 3 2.8 506.2 290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M1-B07 3 2.21 360.0 694 A22-M1-B22 3 2.23 394.1 292 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.77 472.1 293 A02-M1-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 492.2 295 A04-M1-B07 3 2.65 430.0 698 A26-M1-B23 3 2.36 408.2 296 A04-M1-B07 3 2.65 430.0 700 A06-M1-B23 3 2.33 34.0 299 A06-M1-B07 3 <	287	A24-M1-B06		2.67	466.1						
290 A27-M2-B06 3 2.74 456.1 693 A21-M1-B22 3 2.23 394.1 291 A01-M1-B07 3 2.21 360.0 694 A22-M1-B22 3 3.02 574.1 292 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.77 472.1 293 A02-M1-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 295 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.35 384.0 297 A04-M2-B07 3 2.67 508.0 701 A08-M1-B23 3 2.3 384.0 299 A06-M1-B07 3	288	A25-M1-B06	3	2.85	498.1	L	691	A04-M1-B22			
291 A01-M1-B07 3 2.31 360.0 694 A22-M1-B22 3 3.02 574.1 292 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.77 472.1 293 A02-M1-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.81 468.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.43 360.0 301 A07-M1-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 302 A07-M2-B07 3 2.73 496.0 706 A15-M1-B23 3 2.49 360.0 303 A08-M1-B07 3 2.65 472.1 708 A17-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.65 466.0 707 A16-M1-B23 3 2.57 402.0 305 A09-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 306 A09-M2-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 307 A10-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 311 A13-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 312 A14-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 313 A15-M1-B07 3 2.87 448.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 315 A17-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 316 A18-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 317 A18-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 318 A15-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 319 A12-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 311 A13-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 312 A14-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 313 A15-M1-B07 3 2.88 448.0 719 A05-M1-B24 3 2.27 363.1 316 A18-M2-B07 3 2.89 448.0 719 A05-M1-B24 3 2.25 354.0	289	A26-M1-B06		2.39	382.1	L	692				
292 A01-M2-B07 3 2.37 360.0 695 A23-M1-B22 3 2.77 472.1 293 A02-M1-B07 3 2.55 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.27 346.0 302 A07-M2-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 706 A15-M1-B23 3 2.44 409.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.55 420.0 306 A09-M2-B07 3 2.65 466.0 710 A08-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 402.0 309 A11-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 402.0 311 A13-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 402.0 311 A13-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.77 470.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.57 438.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.57 438.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.57 402.0 311 A13-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 402.0 311 A13-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 402.0 311 A13-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.57 438.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.57 438.0 313 A15-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.57 438.0 313 A15-M1-B07 3 2.58 478.0 716 A25-M1-B23 3 2.57 438.0 315 A17-M1-B07 3 2.58 478.0 717 A26-M1-B23 3 2.57 438.0 315 A17-M1-B07 3 2.58 478.0 717 A26-M1-B23 3 2.57 438.0 315 A17-M1-B07 3 2.58 478.0 717 A26-M1-B23 3 2.57 438.0 315 A17-M1-B07 3 2.58 478.0 717 A26-M1-B23 3 2.57 438.0 315 A17-M1-B07 3 2.88 448.0 720 A06-M1-B24 3 2.55 445.0 315 A17-M1-B07 3 2.88 448.0 720 A06-M1-B24 3 2.55 447.1 448.0 719 A05-M1-B24 3 2.55 447	290	A27-M2-B06	3	2.74	456.1	L	693				
293 A02-M1-B07 3 2.66 412.1 696 A24-M1-B22 3 2.63 492.1 294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 702 A10-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.27 346.0 302 A07-M2-B07 3 2.73 496.0 705 A14-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 706 A15-M1-B23 3 2.55 429.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.59 420.0 305 A09-M2-B07 3 2.65 472.1 709 A18-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.77 400.0 310 A12-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.77 418.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.77 418.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.77 418.0 312 A14-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 712 A21-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.58 478.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 448.0 719 A05-M1-B24 3 2.25 354.0 315 A17-M1-B07 3 2.88 448.0 720 A06-M1-B24 3 2.25 459.0 317 A18-M1-B07 3 2.88 448.0 720	291	A01-M1-B07		2.21	360.0	_	694	A22-M1-B22		 	
294 A02-M2-B07 3 2.66 412.1 697 A25-M1-B22 3 2.84 524.2 295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 707 A16-M1-B23 3 2.44 409.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.51 429.0 306 A09-M2-B07 3 2.65 466.0 710 A04-M1-B23 3 2.53 420.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.77 418.0 312 A14-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 717 A26-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 717 A26-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 716 A25-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 457.0 716 A25-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 448.0 720 A06-M1-B24 3 2.27 363.1 316 A18-M2-B07 3 2.88 448.0 720 A06-M1-B24 3 2.55 447.1 318 A20-M1-B07 3 2.89 448.0 720 A06-M1-B24 3 2.55 447.1	292	A01-M2-B07	3	2.37	360.0	L	695				
295 A03-M1-B07 3 2.83 480.0 698 A26-M1-B22 3 2.36 408.2 296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 300 A06-M2-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 707 A16-M1-B23 3 2.4 409.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.19 403.1 306 A09-M2-B07 3 2.65 466.0 710 A04-M1-B23 3 2.53 420.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.68 478.0 711 A20-M1-B23 3 2.77 470.0 311 A13-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 312 A14-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 715 A24-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.67 437.0 717 A26-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.88 542.1 714 A23-M1-B23 3 2.77 470.0 314 A16-M1-B07 3 2.89 445.0 719 A05-M1-B24 3 2.27 363.1 316 A18-M2-B07 3 2.89 448.0 720 A06-M1-B24 3 2.27 363.1 316 A18-M2-B07 3 2.89 448.0 720 A06-M1-B24 3 2.55 447.1 318 A20-M1-B07 3 2.89 448.0 720 A06-M1-B24 3 2.55 447.1	293	A02-M1-B07	3	2.55	412.1	L	696				
296 A04-M1-B07 3 2.55 430.0 699 A02-M1-B23 3 2.55 384.0 297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.81 496.0 707 A16-M1-B23 3 2.25 429.0 304 A08-M2-B07 3	294	A02-M2-B07		2.66	412.1		697	A25-M1-B22			
297 A04-M2-B07 3 2.65 430.0 700 A06-M1-B23 3 2.3 334.0 298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.25 429.0 304 A08-M2-B07 3 2.67 472.1 708 A17-M1-B23 3 2.4 409.0 305 A09-M1-B07 3 <	295	A03-M1-B07	3	2.83	480.0	L	698	A26-M1-B22			
298 A05-M1-B07 3 2.77 508.0 701 A08-M1-B23 3 2.81 468.0 299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M2-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.67 472.1 708 A17-M1-B23 3 2.19 403.1 306 A09-M2-B07 3 2.65 472.1 708 A18-M1-B23 3 2.53 420.0 307 A10-M1-B07 3	296	A04-M1-B07	3	2.55	430.0	L	699	A02-M1-B23			
299 A06-M1-B07 3 2.37 362.0 702 A10-M1-B23 3 2.66 438.0 300 A06-M2-B07 3 2.49 362.0 703 A11-M1-B23 3 2.59 450.0 301 A07-M1-B07 3 2.61 448.0 704 A12-M1-B23 3 2.43 360.0 302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 707 A16-M1-B23 3 2.4 409.0 305 A09-M1-B07 3 2.65 472.1 708 A17-M1-B23 3 2.19 403.1 306 A09-M2-B07 3 2.65 472.1 709 A18-M1-B23 3 2.57 402.0 307 A10-M1-B07 3	297	A04-M2-B07	3	2.65	430.0	L	700	A06-M1-B23			
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302 A07-M2-B07 3 2.73 448.0 705 A14-M1-B23 3 2.27 346.0 303 A08-M1-B07 3 2.73 496.0 706 A15-M1-B23 3 2.55 429.0 304 A08-M2-B07 3 2.81 496.0 707 A16-M1-B23 3 2.4 409.0 305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.19 403.1 306 A09-M2-B07 3 2.65 472.1 709 A18-M1-B23 3 2.53 420.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.68 478.0 711 A20-M1-B23 3 2.73 452.0 309 A11-M2-B07 3 2.58 478.0 712 A21-M1-B23 3 2.07 340.0 310 A12-M1-B07 3	300	A06-M2-B07		2.49	362.0						
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305 A09-M1-B07 3 2.67 472.1 708 A17-M1-B23 3 2.19 403.1 306 A09-M2-B07 3 2.65 472.1 709 A18-M1-B23 3 2.53 420.0 307 A10-M1-B07 3 2.65 466.0 710 A04-M1-B23 3 2.57 402.0 308 A11-M1-B07 3 2.58 478.0 711 A20-M1-B23 3 2.07 340.0 309 A11-M2-B07 3 2.68 478.0 712 A21-M1-B23 3 2.07 340.0 310 A12-M1-B07 3 2.51 388.1 713 A22-M1-B23 3 2.96 520.0 311 A13-M2-B07 3 2.88 542.1 714 A23-M1-B23 3 2.57 418.0 312 A14-M1-B07 3 2.57 374.0 715 A24-M1-B23 3 2.57 438.0 313 A15-M1-B07 3	303	A08-M1-B07	3	2.73	496.0	L					
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310 /22-1/11-007 0 2.00 407.4	317	A18-M1-B07	3	2.8	448.0		720				
319 A21-M1-B07 3 2.39 368.0 722 A10-M1-B24 3 2.39 417.1	318	A20-M1-B07	3	2.98	480.0	I	721				
	319	A21-M1-B07	3	2.39	368.0	\int	722	A10-M1-B24	3_	2.39	417.1

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327 AOI-MIR-BOB 3 2.06 336.1 730 AO4-MI-B24 3 2.29 381.1 328 AO2-MI-BOB 3 2.26 388.2 731 AO4-MI-B24 3 2.46 431.1 329 AO3-MI-BOB 3 2.25 406.1 733 A22-MI-B24 3 2.74 499.1 331 AO5-MI-BOB 3 2.29 460.1 733 A22-MI-B24 3 2.71 499.1 331 AO5-MI-BOB 3 2.49 484.1 734 A23-MI-B24 3 2.71 499.1 332 AO5-MI-BOB 3 2.55 484.1 735 A24-MI-B24 3 2.29 417.1 333 AO6-MI-BOB 3 2.48 442.1 736 A25-MI-B24 3 2.49 149.1 333 AOF-MI-BOB 3 2.48 472.1 740 A06-MI-B25 3 2.63 372.2 336 AOF-MI-BOB 3	325	A27-M2-B07				1					
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329 A03-M1-B08 3 2.55 456.1 732 A21-M1-B24 3 1.74 319.1 329 A03-M1-B08 3 2.26 406.1 733 A22-M1-B24 3 2.71 499.1 331 A05-M1-B08 3 2.49 484.1 734 A23-M1-B24 3 2.41 397.1 332 A05-M2-B08 3 2.55 484.1 735 A22-M1-B24 3 2.29 417.1 333 A06-M1-B08 3 2.05 338.1 736 A25-M1-B24 3 2.29 417.1 333 A06-M2-B08 3 2.05 338.1 736 A25-M1-B24 3 2.29 417.1 334 A06-M2-B08 3 2.16 338.1 737 A26-M1-B24 3 2.51 449.1 335 A07-M1-B08 3 2.35 424.1 738 A02-M1-B25 3 2.63 372.2 336 A07-M2-B08 3 2.43 424.1 739 A05-M1-B25 3 2.89 468.1 337 A08-M1-B08 3 2.48 472.1 740 A06-M1-B25 3 2.41 322.1 338 A08-M2-B08 3 2.55 472.1 741 A08-M1-B25 3 2.47 432.1 339 A09-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.41 442.1 745 A15-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.33 334.1 341 A11-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 454.2 747 A14-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.27 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 748 A18-M1-B25 3 2.61 390.2 346 A12-M2-B08 3 2.27 360.1 751 A21-M1-B25 3 2.61 390.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.61 390.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.61 390.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.61 390.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.65 390.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.61 30.3 390.2 360.3 360 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.65 390.2 361 A18-M1-B08 3 2.65 418.2 753 A23-M1-B25 3 2.65 390.2 361 A18-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.65 390.2 361 A18-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.65 390.2 361 A33-M1-B08 3 2.65 422-M1-B25 3 2.65 390.2 361 A33-M1-B08 3 2.65 422-M1-B25 3 2.65 390.2 361 A33-M1-B26 3 3.39 385.2 A18-M1-B08 3 2.65 422-M1-B26 3 3.39 385.2 A18-M1-B08	327	A01-M2-B08				4					
330 A04-M1-B08 3 2.26 406.1 733 A22-M1-B24 3 2.71 499.1	328	A02-M1-B08				_]					
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334 A06-M2-B08 3 2.16 338.1 737 A26-M1-B24 3 1.95 333.1 334 A06-M2-B08 3 2.35 424.1 738 A02-M1-B25 3 2.63 372.2 336 A07-M2-B08 3 2.43 424.1 739 A05-M1-B25 3 2.69 468.1 337 A08-M1-B08 3 2.48 472.1 740 A06-M1-B25 3 2.41 322.1 338 A08-M2-B08 3 2.55 472.1 741 A08-M1-B25 3 2.73 426.1 339 A09-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.73 426.1 340 A09-M2-B08 3 2.31 448.2 742 A10-M1-B25 3 2.73 426.1 340 A09-M2-B08 3 2.34 448.2 743 A11-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.66 438.2 341 A10-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.5 397.2 344 A11-M1-B08 3 2.44 442.1 745 A16-M1-B25 3 2.5 397.2 344 A11-M1-B08 3 2.44 454.2 747 A17-M1-B25 3 2.5 397.2 344 A11-M1-B08 3 2.24 364.2 746 A16-M1-B25 3 2.5 397.2 344 A11-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M1-B08 3 2.27 364.2 749 A04-M1-B25 3 2.61 408.1 348 A14-M1-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.27 364.2 749 A04-M1-B25 3 2.8 440.2 348 A14-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.21 328.1 399 A15-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.21 328.1 399 A15-M1-B08 3 2.29 443.2 753 A22-M1-B25 3 2.26 508.1 350 A16-M1-B08 3 2.99 413.2 753 A23-M1-B25 3 2.65 426.1 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.29 508.1 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 3.9 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 339 385.2 355 A21-M1-B08 3 2.29 524.1 759 A16-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.29 524.1 759 A16-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.39 385.2 356 A22-M1-B08 3 2.23 348.2 766 A26-M1-B26 3 3.39 385.2 366 A26-M1-B08 3 2.23 348.2 766 A26-M1-B26 3 3.37 349.2 328 468.1 760 A26-M1-B26 3 3.37 349.2 328 468.1 750 A26-M1-B26 3 3.37 349.2 328 468.1 760 A26-M1-B26 3 3.35 349.2 328 468.1 760 A26-M1-B26 3 3.37 345.2 366 A02-M1-B08 3 2.23 348.2 766 A26-M1-B26 3 3.37 349.2 325 340.2 766 A26-M1-B26 3 3.37 345.2 366 A03-M1-B09 3 2.23 348.2 766 A26-M1-B26 3 3.36 3.00 3.37 348.2 766 A26-M1-B26 3 3.37 345.2 328 468.1 770 A08-M1-B2	332	A05-M2-B08		2.55		4		 			
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336 A07-M2-B08 3 2.43 424.1 739 A05-M1-B25 3 2.89 468.1 337 A08-M1-B08 3 2.48 472.1 740 A06-M1-B25 3 2.41 322.1 338 A08-M2-B08 3 2.55 472.1 741 A08-M1-B25 3 2.87 456.1 339 A09-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.73 426.1 340 A09-M2-B08 3 2.34 448.2 743 A11-M1-B25 3 2.66 438.3 341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.62 417.1 342 A10-M2-B08 3 2.44 442.1 744 A14-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.53 397.2 344 A11-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.51 397.2 344 A11-M2-B08 3 2.44 454.2 747 A17-M1-B25 3 2.51 397.2 344 A11-M2-B08 3 2.44 454.2 747 A17-M1-B25 3 2.51 397.2 344 A11-M2-B08 3 2.49 454.2 747 A17-M1-B25 3 2.51 397.2 345 A12-M1-B08 3 2.27 364.2 749 A04-M1-B25 3 2.66 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.27 360.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.21 328.1 350 A16-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.21 328.1 351 A17-M1-B08 3 2.59 413.2 753 A23-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.59 456.1 755 A25-M1-B25 3 2.83 454.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.23 3.49 328.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.39 385.2 355 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.39 385.2 356 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.39 385.2 356 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.39 385.2 356 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.39 385.2 356 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.39 385.2 356 A21-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.37 442.2 359 A25-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.37 442.2 359 A25-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.37 452.2 356 A26-M1-B08 3 2.58 422.1 756 A26-M1-B26 3 3.37 452.2 356 A26-M1-B08 3 2.58 422	334	A06-M2-B08		2.16	338.1	_					
337 AO8-M1-B08 3 2.48 472.1 740 AO6-M1-B25 3 2.41 322.1 338 AO8-M2-B08 3 2.55 472.1 741 AO8-M1-B25 3 2.87 456.1 339 AO9-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.34 448.2 743 A11-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.62 417.1 342 A10-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 344 A11-M2-B08 3 2.44 442.1 745 A16-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.51 397.2 344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.51 397.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.61 408.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.8 440.2 348 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.8 440.2 348 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.77 406.1 351 A17-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.85 426.1 353 A18-M1-B08 3 2.59 442.1 755 A25-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 328.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 391.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 391.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 391.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 391.2 355 A21-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 422.1 760 A17-M1-B26 3 3.349 391.2 356 A22-M1-B08 3 2.58 432.2 766 A26-M1-B26 3 3.49 32.2 356.1 420.2 360 A26-M1-B08 3 2.58 442.1 761 A20-M1-B26 3 3.45 336.2 360 A26-	335	A07-M1-B08		2.35	424.1						
338 A08-M2-B08 3 2.55 472.1 741 A08-M1-B25 3 2.87 456.1 339 A09-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.73 426.1 340 A09-M2-B08 3 2.34 448.2 743 A11-M1-B25 3 2.66 438.2 341 A10-M2-B08 3 2.44 442.1 744 A14-M1-B25 3 2.62 447.1 343 A11-M1-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 447.1 344 A11-M2-B08 3 2.24 454.2 746 A16-M1-B25 3 2.53 397.2 344 A11-M1-B08 3 2.24 364.2 748 A16-M1-B25 3 2.61 408.1 346 A12-M1-B08 3 2.23 364.2 749 A04-M1-B25 3 2.61 408.1 347 A13-M1-B08 3	336	A07-M2-B08		2.43	424.1						
339 A09-M1-B08 3 2.31 448.2 742 A10-M1-B25 3 2.73 426.1	337	A08-M1-B08	3	2.48	472.1		740	·		 	
340 A09-M2-B08 3 2.34 448.2 743 A11-M1-B25 3 2.66 438.2 341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.38 334.1 342 A10-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.5 397.2 344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.51 397.2 345 A12-M1-B08 3 2.27 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 <	338	A08-M2-B08		2.55	472.1	Ц	741				
341 A10-M1-B08 3 2.41 442.1 744 A14-M1-B25 3 2.38 334.1 342 A10-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.5 397.2 344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.65 390.2 348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.02 508.1 350 A16-M1-B08 3 <	339	A09-M1-B08	3	2.31	448.2			 			
342 A10-M2-B08 3 2.44 442.1 745 A15-M1-B25 3 2.62 417.1 343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.5 397.2 344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.65 390.2 348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.20 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.07 406.1 352 A18-M2-B08 3 <	340	A09-M2-B08		2.34	448.2		743	A11-M1-B25			
343 A11-M1-B08 3 2.36 454.2 746 A16-M1-B25 3 2.5 397.2 344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.65 390.2 348 A14-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.07 406.1 350 A16-M1-B08 3 2.57 424.1 755 A25-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 <	341	A10-M1-B08	3	2.41	442.1		744	A14-M1-B25			
344 A11-M2-B08 3 2.4 454.2 747 A17-M1-B25 3 2.31 391.2 345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.8 440.2 348 A14-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 2.07 406.1 351 A17-M1-B08 3 2.57 424.1 755 A25-M1-B25 3 2.65 426.1 352 A18-M1-B08 3 <	342	A10-M2-B08	3	2.44	442.1		745	A15-M1-B25			
345 A12-M1-B08 3 2.24 364.2 748 A18-M1-B25 3 2.61 408.1 346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.8 440.2 348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.65 426.1 351 A17-M1-B08 3 2.57 424.1 755 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.69 456.1 757 A14-M1-B25 3 2.35 342.2 354 A20-M1-B08 3	343	A11-M1-B08	3	2.36	454.2		746	A16-M1-B25			
346 A12-M2-B08 3 2.27 364.2 749 A04-M1-B25 3 2.65 390.2 347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.8 440.2 348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.07 406.1 351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.65 426.1 353 A18-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 354 A20-M1-B08 3	344	A11-M2-B08	3	2.4	454.2	L	747	A17-M1-B25			
347 A13-M1-B08 3 2.63 518.2 750 A20-M1-B25 3 2.8 440.2 348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.77 406.1 351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.65 426.1 353 A18-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 354 A20-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.49 391.2 355 A21-M1-B08 3	345	A12-M1-B08	3	2.24	364.2	L	748	A18-M1-B25			
348 A14-M1-B08 3 2.27 350.1 751 A21-M1-B25 3 2.21 328.1 349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.77 406.1 351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.83 458.1 353 A18-M1-B08 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.92 524.1 758 A15-M1-B26 3 3.53 411.2 357 A23-M1-B08 3	346	A12-M2-B08	3	2.27	364.2	L	749	A04-M1-B25			
349 A15-M1-B08 3 2.51 433.1 752 A22-M1-B25 3 3.02 508.1 350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.77 406.1 351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.83 458.1 353 A18-M1-B08 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.53 411.2 356 A22-M1-B08 3 2.65 422.1 759 A16-M1-B26 3 3.39 385.2 357 A23-M1-B08 3	347	A13-M1-B08	3	2.63	518.2		750	A20-M1-B25			
350 A16-M1-B08 3 2.39 413.2 753 A23-M1-B25 3 2.77 406.1 351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.83 458.1 353 A18-M1-B08 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.53 411.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.37 434.2 359 A25-M1-B08 3	348	A14-M1-B08	3	2.27	350.1	L	751	A21-M1-B25			
351 A17-M1-B08 3 2.19 407.2 754 A24-M1-B25 3 2.65 426.1 352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.83 458.1 353 A18-M1-B08 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.53 411.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3	349	A15-M1-B08	3	2.51	433.1		752				
352 A18-M2-B08 3 2.57 424.1 755 A25-M1-B25 3 2.83 458.1 353 A18-M1-B08 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.49 391.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.31 322.2 369 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3	350	A16-M1-B08	3	2.39	413.2	L	753	A23-M1-B25			
352 A10-M2-Boo 3 2.49 424.1 756 A26-M1-B25 3 2.35 342.2 354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.49 391.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.61 420.2 361 A27-M2-B08 3	351	A17-M1-B08	3	2.19	407.2		754	A24-M1-B25			
354 A20-M1-B08 3 2.69 456.1 757 A14-M1-B26 3 3.49 328.2 355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.53 411.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.61 420.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3	352	A18-M2-B08	3	2.57	424.1		755				1
355 A21-M1-B08 3 2.09 344.1 758 A15-M1-B26 3 3.53 411.2 356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.45 336.2 363 A01-M2-B09 3	353	A18-M1-B08	3	2.49	424.1	L	756	A26-M1-B25			
356 A22-M1-B08 3 2.92 524.1 759 A16-M1-B26 3 3.49 391.2 357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.55 400.2 767 A02-M1-B26 3 3.45 336.2 364 A02-M1-B09 3	354	A20-M1-B08	3	2.69	456.1	L	757	A14-M1-B26		3.49	
357 A23-M1-B08 3 2.65 422.1 760 A17-M1-B26 3 3.39 385.2 358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.63 400.2 767 A02-M1-B27 3 2.75 500.1 365 A02-M2-B09 3	355	A21-M1-B08	3	2.09	344.1	L	758	A15-M1-B26			
358 A24-M1-B08 3 2.53 442.1 761 A20-M1-B26 3 3.77 434.2 359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B26 3 3.45 336.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 367 A03-M2-B09 3	356	A22-M1-B08	3	2.92	524.1		759				
359 A25-M1-B08 3 2.73 474.1 762 A21-M1-B26 3 3.31 322.2 360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B26 3 3.45 336.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 369 A04-M2-B09 3	357	A23-M1-B08	3	2.65	422.1	L	760	A17-M1-B26			
360 A26-M1-B08 3 2.23 358.1 763 A23-M1-B26 3 3.8 400.2 361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 <	358	A24-M1-B08	3	2.53	442.1		761	A20-M1-B26			
361 A27-M2-B08 3 2.58 432.2 764 A24-M1-B26 3 3.61 420.2 362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.74 488.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	359	A25-M1-B08	3	2.73	474.1		762	A21-M1-B26			
362 A01-M1-B09 3 2.23 348.2 765 A25-M1-B26 3 3.79 452.2 363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.74 488.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	360	A26-M1-B08	3	2.23	358.1	1	763	A23-M1-B26			
363 A01-M2-B09 3 2.37 348.2 766 A26-M1-B26 3 3.45 336.2 364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.27 354.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	361	A27-M2-B08	3	2.58	432.2		764	A24-M1-B26			
364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.27 354.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	362	A01-M1-B09	3	2.23	348.2		765	A25-M1-B26	ļ		
364 A02-M1-B09 3 2.55 400.2 767 A02-M1-B27 3 2.5 404.2 365 A02-M2-B09 3 2.63 400.2 768 A05-M1-B27 3 2.75 500.1 366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.27 354.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1			3	2.37	348.2	ſ	766	A26-M1-B26		-	+
366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.27 354.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	364	A02-M1-B09	3	2.55	400.2		767	A02-M1-B27			
366 A03-M1-B09 3 2.82 468.1 769 A06-M1-B27 3 2.27 354.1 367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1	365	A02-M2-B09	3	2.63	400.2		768	A05-M1-B27			
367 A03-M2-B09 3 2.89 468.1 770 A08-M1-B27 3 2.74 488.1 368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1			3	2.82	468.1		769	A06-M1-B27			
368 A04-M1-B09 3 2.55 418.2 771 A10-M1-B27 3 2.61 458.1 369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1			3	2.89	468.1	╧	770	A08-M1-B27			
369 A04-M2-B09 3 2.63 418.2 772 A11-M1-B27 3 2.54 470.1				2.55	418.2	\int	771	A10-M1-B27			
100 1 1 100 1 1 100 100 100 100 100 100				2.63	418.2		772	A11-M1-B27			
			3	2.75	496.1	\int	773	A12-M1-B27	3_	2.38	380.2

371	A05-M2-B09	3	2.81	496.1	774	A14-M1-B27	3	2.25	366.1
372	A06-M1-B09	3	2.38	350.2	775	A15-M1-B27	3	2.49	449.1
373	A06-M2-B09	3	2.48	350.2	776	A16-M1-B27	3	2.37	429.1
374	A07-M1-B09	3	2.61	436.2	777	A17-M1-B27	3	2.17	423.2
375	A07-M2-B09	3	2.7	436.2	778	A18-M1-B27	3	2.47	440.1
376	A08-M1-B09	3	2.72	484.2	779	A04-M1-B27	3	2.51	422.1
377	A08-M2-B09	3	2.79	484.2	780	A20-M1-B27	3	2.66	472.1
378	A09-M1-B09	3	2.57	460.2	781	A21-M1-B27	3	2.06	360.1
379	A09-M2-B09	3	2.63	460.2	782	A22-M1-B27	3	2.89	540.1
380	A10-M1-B09	3	2.66	454.2	783	A23-M1-B27	3	2.63	438.1
381	A10-M2-B09	3	2.71	454.2	784	A24-M1-B27	3	2.51	458.1
382	A11-M1-B09	3	2.59	466.2	785	A25-M1-B27	3	2.7	490.4
383	A11-M2-B09	3	2.7	466.2	786	A26-M1-B27	3	2.22	374.4
384	A12-M1-B09	3	2.51	376.2	787	A02-M1-B28	3	2.65	541.2
385	A12-M2-B09	3	2.57	376.2	788	A05-M1-B28	3	2.86	637.1
386	A13-M2-B09	3	2.85	530.2	789	A06-M1-B28	3	2.47	491.2
387	A13-M1-B09	3	2.89	530.2	790	A08-M1-B28	3	2.85	625.2
388	A14-M1-B09	3	2.6	362.2	791	A10-M1-B28	3	2.73	595.2
389	A15-M1-B09	3-	2.8	445.2	792	A11-M1-B28	3	2.68	607.2
390	A16-M1-B09	3	2.69	425.2	793	A12-M1-B28	3	2.56	517.2
391	A17-M1-B09	3	2.53	419.2	794	A14-M1-B28	3	2.44	503.2
392	A18-M2-B09	3	2.9	436.2	795	A15-M1-B28	3	2.63	586.2
393	A18-M1-B09	3	2.81	436.2	796	A16-M1-B28	3	2.54	566.2
394	A20-M1-B09	3	2.99	468.2	797	A17-M1-B28	3	2.37	560.2
395	A21-M1-B09	3	2.44	356.2	798		3	2.63	577.2
396	A22-M1-B09	3	3.19	536.2	799	A04-M1-B28	3	2.65	559.2
397	A23-M1-B09	3	2.97	434.2	800	A20-M1-B28	3	2.79	609.2
398	A24-M1-B09	3	2.83	454.2	801	A21-M1-B28	3	2.31	497.2
399	A25-M1-B09	3	3.03	486.2_	802	A22-M1-B28	3	3_	677.2
400	A26-M1-B09	3	2.59	370.2	803		3	2.76	575.1
401	A27-M2-B09	3	2.9	444.2	804		3	2.65	595.2
402	A01-M1-B10	3	1.73	352.1	805		3	2.83	627.2
403	A01-M2-B10	3	1.88	352.1	806	A26-M1-B28	3_	2.42	511.6

1-(6-Benzyloxy-1H-indazol-3-yl)-3-butyl-urea

- 5 500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane and 374 mg of $2-[6-(\text{tert-butyl-dimethyl-silanyloxy})-1\text{H-indazol-3-yl}]-isoindole-1,3-dione (0.9 mmol) and 367 <math>\mu$ l of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-
- 10 1,3,2-diazaphosphorine (1.3 mmol) were added. The suspension was stirred for 16 hours and then the resin was filtered and washed with dichloromethane, methanol,

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dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum.

The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

5 40 mg of resin were suspended in 1 ml of dichloromethane and 150 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

The resin obtained from the first step (300 mg, ~0.25 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 400 μl of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again, before drying under vacuum.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

Cleaved compound: 6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine: HPLC r.t. Method 1: 5.99 [M+H]+= 264; [M-H]-= 262

A sample of the resin obtained from the second step (100 mg, 0.08 mmol) was suspended in 2 ml of dimethylformamide; N-butyl isocyanate (28 μ l ~5 eq) was added. The suspension was heated to 50°C. Stirring and heating was maintained for 60 hours, then the suspension was cooled down to room temperature. The resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

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The resin obtained from the third step (100 mg, 0.08 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

Cleaved compound: 1-butyl-3-(6-hydroxy-1H-indazol-3-yl)-urea; HPLC Method 1 r.t. 3.87 [M+H]+= 249 [M-H]-= 247.

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The resin obtained from the fourth step (100 mg, 0.08 mmol) were suspended in 3 ml of 1-methyl-2-pyrrolidinone, then 43 µl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-1,3,2-diazaphosphorine (~1.5 eq) and 57 µl of benzyl bromide (~6 eq) were added. The suspension was stirred for 16 hours. The resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 µl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 3 ml of dichloromethane; the collected solutions were dried; the title compound recovered 1-(6-Benzyloxy-1H-indazol-3-yl)-3-butyl-urea: HPLC Method 3

25 r.t. 2.3 [M+H]+=339.3

By proceeding in a manner similar to that of Example 12, 2-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin and then, by following the described synthetic scheme, the products below were synthesized.

1-(5-Benzyloxy-1H-indazol-3-yl)-3-butyl-urea: HPLC Method 3 r.t. 2.25 [M+H]+=339.3

methyl 2-({3-[(anilinocarbonyl)amino]-1H-indazol-5yl}oxy)butanoate_HPLC r.t. Method 1: 5.88 [M+H]+= 369.1 2-[(3-{[(benzylamino)carbonyl]amino}-1H-indazol-5yl)oxy]butanoate_HPLC r.t. Method 2: 8.19 [M+H]+= 383.2 N-isopropyl-N'-{5-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-5 indazol-3-yl}urea HPLC r.t. Method 2: 7.84 [M+H] += 394.2 2-[(3-{[(isopropylamino)carbonyl]amino}-1H-indazol-5yl)oxy]-N-phenylpropanamide HPLC r.t. Method 2: 7.76 [M+H] += 382.2methyl 2-[(3-{[(isopropylamino)carbonyl]amino}-1H-indazol-10 5-yl)oxy]butanoate_HPLC r.t. Method 2: 7.65 [M+H]+= 335.2 $N-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-\{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-N'-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-isopropyl-$

By proceeding in the same way (example 12), 506 products were synthesized in parallel and coded in table XII, as formerly indicated; related HPLC retention time and the experimentally found [M+H]+ are reported.

indazol-3-yl}urea HPLC r.t. Method 2: 7.89 [M+H]+= 394.2

20 Table XII

Entry	Compound	Method HPLC	r.t. (min)	[M+H]+	Entry	Compound	Method HPLC	r.t. (min)	[M+H]+
1	A38-M1-B82	2	9.11	373.2	254	A14-M1-B69	3	2.52	349.2
2	A29-M1-B82	2	8.3	428.2	255	A15-M1-B69	3	2.74	432.2
3	A35-M1-B82		8.18	416.2	256	A16-M1-B69	3	2.64	412.2
4	A38-M1-B83	2	9.09	387.2	257	A17-M1-B69		2.46	406.2
5	A29-M1-B83		8.3	442.2	258	A18-M2-B69	3	2.77	423.2
6	A35-M1-B83		8.26	430.2	259	A18-M1-B69		2.75	423.2
7	A39-M1-B83	2	8.47	431.2	260	A20-M1-B69	3	2.93	455.2
8	A40-M1-B83	2	9.05	470.2	261	A21-M1-B69	3	2.37	343.1
9	A38-M1-B68		8.75	339.2	262	A22-M1-B69	3	3.13	523.1
10	A03-M1-B68	2	9.32	393.1	263	A23-M1-B69	3	2.91	421.1
11	A40-M1-B68	2	8.74	422.2	264	A24-M1-B69	3	2.79	441.1
12	A35-M2-B82	2	8.31	416.2	265	A25-M1-B69	3	2.97	473.2
13	A32-M2-B82	1	6.01	369.1	266	A26-M1-B69	3	2.51	357.2
14	A39-M2-B82	2	8.54	417.1	267	A27-M2-B69	3	2.77	431.2
15	A40-M2-B82	2	9.09	456.2	268	A01-M1-B70	3	2.2	373.1
16	A38-M2-B83		9.15	387.2	269	A01-M2-B70	3	2.22	373.1
17	A45-M2-B83	 	9.31	477.2	270	A02-M1-B70	3	2.44	425.1
18	A03-M2-B83		9.61	441.1	271	A03-M1-B70	3	2.7	493.1
19	A29-M2-B83		8.35	442.2	272	A04-M1-B70	3	2.45	443.1
20	A31-M2-B83	+	8.64	351.2	273	A05-M1-B70	3	2.63	521

1	1		ì	405.4.1	1	074	 A O.E. MO D.ZO	2	264	521
	A44-M2-B83	2	8.77	435.1	\dashv		A05-M2-B70	3	2.61	375.1
_	A46-M2-B83	2	8.69	461.2	4		A06-M1-B70		2.27	
23	A35-M2-B83	2	8.33	430.2	4	276	A06-M2-B70	3	2.33	375.1 461.1
24	A32-M2-B83		5.7	383.2	4	277	A07-M2-B70	3	2.55	
25	A41-M2-B83	2	9.02	477.2	-	278	A08-M1-B70	3	2.61	509.1
26_	A39-M2-B83	2	8.57	431.2	4	279	A09-M2-B70	3	2.48	485.2
27	A40-M2-B83	2	9.12	470.2		280	A10-M1-B70	3	2.57	479.1
28	A38-M2-B68	2	8.82	339.2	Ц	281	A10-M2-B70	3	2.56	479.1
29	A03-M2-B68	2	9.35	393.1		282	A11-M1-B70	3	2.51	491.1
30	A31-M2-B68	2	8.12	303.2		283	A11-M2-B70	3	2.52	491.1
31	A44-M2-B68	2	8.37	387.1	Ц	284	A12-M1-B70	3	2.41	401.1
32	A46-M2-B68		8.28	413.2	Ш	285	A12-M2-B70	3	2.43	401.1
33	A35-M2-B68	2	7.86	382.2	L	286	A13-M1-B70	3	2.76	555.1
34	A32-M2-B68	1	4.88	335.2	L	287	A14-M1-B70	3	2.5	387.1
35	A41-M2-B68	2	8.68	429.2	_	288	A18-M2-B70	3	2.71	461.1
36	A39-M2-B68	2	8.15	383.2	L	289	A01-M1-B71	3	1.96	339.1
37	A30-M1-B82	1	7.23	373.2	L	290	A02-M1-B71	3	2.27	391.1
38	A29-M1-B82	1	5.39	337.2	ļ	291	A02-M2-B71	3	2.33	391.1
39	A03-M1-B82	1	7.84	427.1	_	292	A03-M1-B71	3	2.55	459.1
40	A30-M2-B82	1	7.19	373.2	L	293	A03-M2-B71	3	2.58	459.1
41	A31-M2-B82	2	8.58	337.2	L	294	A04-M1-B71	3	2.28	409.1
42	A29-M2-B82	2	8.32	428.2	Ļ	295	A04-M2-B71	3	2.34	409.1
43	A03-M2-B82	2	9.58	427.1	L	296	A05-M1-B71	3	2.49	487.1
44	A01-M1-B62	3	1.99	337.1	L	297	A05-M2-B71	3	2.52	487.1
45	A02-M1-B62	3	2.31	389.2	L	298	A06-M1-B71	3	2.09	341.1
46	A03-M1-B62	3	2.64	457.1	L	299	A08-M2-B71	3	2.52	475.1
47	A03-M2-B62	3	2.64	457.1	Ļ	300	A09-M1-B71	3	2.31	451.2
48	A04-M1-B62	3	2.32	407.1	Ļ	301	A10-M1-B71	3	2.42	445.1
49	A05-M1-B62	3	2.57	485.1	L	302	A11-M1-B71	3	2.36	457.1
50	A05-M2-B62	3_	2.58	485.1	1	303	A11-M2-B71	3	2.37	457.1
51	A06-M1-B62	3	2.12	339.1	ļ	304	A12-M1-B71	3	2.24	367.1
52	A06-M2-B62	3	2.2	339.1	1	305	A12-M2-B71	. 3	2.25	367.1
53	A07-M1-B62	3_	2.44	425.1	ļ	306	A13-M2-B71	3	2.54	521.2
54	A07-M2-B62	3	2.46		╀		A14-M1-B71		2.29	353.1
55	A08-M1-B62	3	2.62		╀	308			2.51	436.1
56	A08-M2-B62	3	2.57		1	309			2.41	416.1
57	A09-M1-B62	3	2.35		1	310			2.21	410.2
58	A09-M2-B62	3	2.38		1	311	A18-M2-B71		2.53	427.1
59	A10-M1-B62	3	2.15		1	312			2.49	427.1
60	A11-M1-B62		2.4	455.1	1	313		 	2.69	459.1
61	A11-M2-B62	3	2.43		-	314			2.13	347.1
62	A12-M1-B62	3	2.28			315			2.91	527.1
63	A13-M2-B62	3	2.61		1	316			2.65	425.1
64	A14-M1-B62		2.33		1	317			2.54	445.1
65	A14-M2-B62		2.41		1	318			2.72	477.1
66	A15-M1-B62		2.55			319		 	2.26	361.1
67	A16-M1-B62		2.45		-	320		-	2.54	435.2
68	A17-M1-B62		2.24			321			1.88	287.1
69	A18-M2-B62		2.62		-	322			2.55	407.1
70	A18-M1-B62		2.53		-	323			2.26	357.2
71	A20-M1-B62	3_	2.75	457.1	1	324	A04-M2-B72	3_	2.31	357.2

73 A22-M1-B62 3 2.96 525.1 326 A05-M2-B72 3 2.53 435.1 74 A23-M1-B62 3 2.76 423.1 327 A06-M1-B72 3 2.03 289.2 75 A24-M1-B62 3 2.78 475.1 329 A08-M2-B72 3 2.5 433.2 76 A25-M1-B62 3 2.78 475.1 329 A08-M2-B72 3 2.5 433.2 77 A26-M1-B62 3 2.31 359.1 330 A09-M1-B72 3 2.32 399.2 78 A01-M1-B63 3 2.09 321.1 331 A10-M1-B72 3 2.39 399.2 79 A02-M1-B63 3 2.47 373.2 332 A11-M1-B72 3 2.39 399.2 80 A03-M1-B63 3 2.75 441.1 333 A11-M2-B72 3 2.34 405.2 81 A03-M2-B63 3 2.75 441.1 334 A12-M1-B72 3 2.34 405.2 82 A04-M1-B63 3 2.75 441.1 334 A12-M1-B72 3 2.21 315.2 83 A04-M2-B63 3 2.44 391.1 336 A13-M1-B72 3 2.21 301.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.21 301.2 85 A06-M1-B63 3 2.33 333.1 338 A15-M1-B72 3 2.21 301.2 86 A07-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.21 301.2 87 A08-M1-B63 3 2.49 409.1 339 A16-M1-B72 3 2.35 364.2 88 A08-M2-B63 3 2.44 433.2 342 A18-M1-B72 3 2.35 364.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.35 364.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.66 407.2 93 A13-M2-B63 3 2.49 439.2 344 A21-M1-B72 3 2.66 407.2 94 A14-M1-B63 3 2.66 477.1 343 A20-M1-B72 3 2.66 407.2 95 A15-M1-B63 3 2.66 477.1 343 A20-M1-B72 3 2.61 373.1 96 A15-M1-B63 3 2.67 477.1 348 A25-M1-B72 3 2.61 373.1 97 A17-M1-B63 3 2.67 477.1 348 A25-M1-B73 3 2.61 479.1 100 A20-M1-B63 3 2.67 477.1 356 A01-M1-B73 3 2.67 479.1 101 A21-M1-B63 3 2.67 477.1 356 A01-M1-B73 3 2.67 479.1 102 A22-M	. ,	1		1	1	1	1			0.40	405.4
7.9 A.22-M1-B62 3 2.7 423.1 327 A06-M1-B72 3 2.03 289.2 7.5 A24-M1-B62 3 2.58 443.1 328 A07-M1-B72 3 2.33 375.2 7.6 A25-M1-B62 3 2.78 475.1 329 A08-M2-B72 3 2.25 423.2 7.7 A26-M1-B63 3 2.09 321.1 331 A10-M1-B72 3 2.39 393.1 7.9 A02-M1-B63 3 2.77 441.1 332 A11-M1-B72 3 2.34 405.2 81 A03-M1-B63 3 2.72 441.1 334 A12-M1-B72 3 2.34 405.2 82 A04-M1-B63 3 2.44 391.1 335 A12-M2-B72 3 2.21 315.2 83 A04-M2-B63 3 2.46 499.1 337 A14-M1-B72 3 2.21 301.2 84 A05-M1-B63 3 <td< td=""><td>72</td><td>A21-M1-B62</td><td>3</td><td>2.15</td><td>345.1</td><td>1</td><td></td><td></td><td>3</td><td>2.48</td><td>435.1</td></td<>	72	A21-M1-B62	3	2.15	345.1	1			3	2.48	435.1
75 A24-M1-B62 3 2.58 443.1 328 A07-M1-B72 3 2.33 375.2 76 A25-M1-B62 3 2.78 475.1 329 A08-M2-B72 3 2.5 423.2 77 A26-M1-B62 3 2.31 359.1 330 A09-M1-B72 3 2.27 399.2 78 A01-M1-B63 3 2.09 321.1 331 A10-M1-B72 3 2.34 405.2 80 A03-M2-B63 3 2.75 441.1 333 A11-M2-B72 3 2.34 405.2 81 A03-M2-B63 3 2.42 391.1 335 A12-M2-B72 3 2.21 315.2 83 A04-M2-B63 3 2.44 391.1 336 A13-M1-B72 3 2.22 315.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.23 364.2 87 A06-M1-B63 3 2.67<	73	A22-M1-B62	3	2.96		1					
76	74	A23-M1-B62	3	2.7	423.1	1					
77	75	A24-M1-B62	3	2.58	443.1	\perp					
78 AO1-M1-B63 3 2.09 321.1 331 A10-M1-B72 3 2.39 393.1 79 AO2-M1-B63 3 2.47 373.2 332 A11-M1-B72 3 2.34 405.2 80 AO3-M1-B63 3 2.75 441.1 333 A11-M2-B72 3 2.34 405.2 81 AO3-M2-B63 3 2.42 391.1 335 A12-M1-B72 3 2.21 315.2 83 AO4-M1-B63 3 2.44 391.1 336 A13-M1-B72 3 2.21 315.2 84 AO5-M1-B63 3 2.44 391.1 336 A13-M1-B72 3 2.22 301.2 85 AO6-M1-B63 3 2.29 409.1 337 A14-M1-B72 3 2.23 364.2 87 AO8-M1-B63 3 2.67 457.1 340 A17-M1-B72 3 2.35 364.2 88 AO8-M2-B63 3 2.64	76	A25-M1-B62	3	2.78	475.1	1					
No.	77	A26-M1-B62	3	2.31	359.1		330	A09-M1-B72			
80 A03-M1-B63 3 2.75 441.1 333 A11-M2-B72 3 2.34 405.2 81 A03-M2-B63 3 2.72 441.1 334 A12-M1-B72 3 2.19 315.2 82 A04-M1-B63 3 2.44 391.1 336 A13-M1-B72 3 2.21 315.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.21 301.2 85 A06-M1-B63 3 2.23 323.1 338 A15-M1-B72 3 2.21 301.2 86 A07-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.35 364.2 87 A08-M1-B63 3 2.64 457.1 340 A17-M1-B72 3 2.49 375.2 89 A09-M1-B63 3 2.56 427.1 341 A18-M1-B72 3 2.49 375.2 89 A10-M1-B63 3 2.56	78	A01-M1-B63	3	2.09	321.1		331	A10-M1-B72			
81 A03-M2-B63 3 2.72 441.1 334 A12-M1-B72 3 2.19 315.2 82 A04-M1-B63 3 2.42 391.1 335 A12-M2-B72 3 2.21 315.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.62 469.2 85 A06-M1-B63 3 2.23 323.1 338 A15-M1-B72 3 2.47 384.2 86 A07-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.47 384.2 87 A08-M1-B63 3 2.64 457.1 340 A17-M1-B72 3 2.13 358.2 88 A09-M1-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 90 A10-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49	79	A02-M1-B63	3	2.47	373.2	1	332	A11-M1-B72			
82 A04-M1-B63 3 2.42 391.1 335 A12-M2-B72 3 2.21 315.2 83 A04-M2-B63 3 2.44 391.1 336 A13-M1-B72 3 2.62 469.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.21 301.2 85 A06-M1-B63 3 2.23 323.1 338 A15-M1-B72 3 2.247 384.2 86 A07-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.35 364.2 87 A08-M1-B63 3 2.64 457.1 340 A17-M1-B72 3 2.35 364.2 88 A08-M2-B63 3 2.64 457.1 340 A17-M1-B72 3 2.49 375.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.49 375.2 90 A10-M1-B63 3 2.49 439.2 342 A18-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.66 407.2 91 A14-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.61 373.1 92 A12-M1-B63 3 2.49 375.2 349 A22-M1-B72 3 2.61 373.1 95 A15-M1-B63 3 2.49 389.2 346 A22-M1-B72 3 2.61 373.1 95 A15-M1-B63 3 2.49 393.2 346 A23-M1-B72 3 2.61 373.1 95 A15-M1-B63 3 2.45 355 398.2 349 A26-M1-B72 3 2.51 393.1 95 A15-M1-B63 3 2.55 398.2 349 A26-M1-B72 3 2.77 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.77 425.2 97 A17-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.17 309.2 97 A17-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.51 413.1 100 A20-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.57 449.1 100 A20-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.57 449.1 101 A21-M1-B63 3 2.67 427.1 356 A07-M1-B73 3 2.57 449.1 102 A22-M1-B63 3 2.67 427.1 356 A08-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.67 427.1 356 A08-M2-B73 3 2.57 449.1 105 A25-M1-B63 3 2.67 427.1 356 A08-M2-B73 3 2.57 449.1 107 A01-M1-B64 3 2.77 341.1 360 A12-M1-B73 3 2.55 479.1 107 A01-M1-B64 3 2.79 489.1 356 A01-M1-B73 3 2.55 479.1 107 A01-M1-B64 3 2.79 489.1 366 A10-M1-B73 3 2.57 449.1 107 A01-M1-B64 3 2.67 477.1 366 A01-M1-B73 3 2.57 449.1 110 A05-M1-B64 3 2.56 429.1 365 A08-M2-B73 3 2.77 543.1 110 A05-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.55 375.1 111 A08-M1-B64 3 2.56 453.1 369 A01-M1-B74 3 2.44 37.2 111 A08-M2-B64 3 2.56 453.1 369 A01-M1-B74 3 2.44 437.2 111 A08-M2-B64 3 2.56 453.1 369 A01-M1-B74 3 2.44 437.2 111 A08-M2-B64 3 2.56 453.1 369 A01-M1-B74 3 2.	80	A03-M1-B63	3	2.75	441.1		333	A11-M2-B72			
83 A04-M2-B63 3 2.44 391.1 336 A13-M1-B72 3 2.62 469.2 84 A05-M1-B63 3 2.68 469.1 337 A14-M1-B72 3 2.21 301.2 85 A06-M1-B63 3 2.23 323.1 338 A15-M1-B72 3 2.24 384.2 86 A07-M2-B63 3 2.69 457.1 340 A17-M1-B72 3 2.13 358.2 87 A08-M1-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 89 A09-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.39 345 A22-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.69 503.2	81	A03-M2-B63	3	2.72	441.1		334	A12-M1-B72		-	
84	82	A04-M1-B63	3	2.42	391.1		335	A12-M2-B72			
85 A06-M1-B63 3 2.23 323.1 338 A15-M1-B72 3 2.47 384.2 86 A07-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.35 364.2 87 A08-M1-B63 3 2.64 457.1 340 A17-M1-B72 3 2.13 358.2 88 A08-M2-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.69 503.2 346 A22-M1-B72 3 2.9 475.1 93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.9 475.1 95 A15-M1-B63 3 2.65 </td <td>83</td> <td>A04-M2-B63</td> <td>3</td> <td>2.44</td> <td>391.1</td> <td></td> <td>336</td> <td>A13-M1-B72</td> <td></td> <td></td> <td></td>	83	A04-M2-B63	3	2.44	391.1		336	A13-M1-B72			
86 AO7-M2-B63 3 2.49 409.1 339 A16-M1-B72 3 2.35 364.2 87 A08-M1-B63 3 2.67 457.1 340 A17-M1-B72 3 2.13 358.2 88 A08-M2-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.64 407.2 91 A11-M1-B63 3 2.56 427.1 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.63<	84	A05-M1-B63	3	2.68	469.1		337	A14-M1-B72		2.21	
87 A08-M1-B63 3 2.67 457.1 340 A17-M1-B72 3 2.13 358.2 88 A08-M2-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.6 409.1 92 A12-M1-B63 3 2.37 349.2 344 A21-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 95 A15-M1-B63 3 2.65 393.2 349 A26-M1-B72 3 2.17 302.1 96 A16-M1-B63 3 2.67<	85	A06-M1-B63	3	2.23	323.1		338	A15-M1-B72		-	
88 A08-M2-B63 3 2.64 457.1 341 A18-M2-B72 3 2.49 375.2 89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.60 407.2 92 A12-M1-B63 3 2.69 503.2 346 A23-M1-B72 3 2.9 475.1 93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.53 398.2 349 A26-M1-B73 3 2.17 309.2 97 A17-M1-B63 3 2.35 </td <td>86</td> <td>A07-M2-B63</td> <td>3</td> <td>2.49</td> <td>409.1</td> <td></td> <td>339</td> <td>A16-M1-B72</td> <td></td> <td>2.35</td> <td></td>	86	A07-M2-B63	3	2.49	409.1		339	A16-M1-B72		2.35	
89 A09-M1-B63 3 2.44 433.2 342 A18-M1-B72 3 2.45 375.2 90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.69 503.2 346 A22-M1-B72 3 2.61 373.1 93 A13-M2-B63 3 2.66 418.1 348 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.66 418.1 348 A25-M1-B72 3 2.6 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.17 309.2 97 A17-M1-B63 3 2.67 </td <td>87</td> <td>A08-M1-B63</td> <td>3</td> <td>2.67</td> <td>457.1</td> <td></td> <td>340</td> <td>A17-M1-B72</td> <td></td> <td>2.13</td> <td></td>	87	A08-M1-B63	3	2.67	457.1		340	A17-M1-B72		2.13	
90 A10-M1-B63 3 2.56 427.1 343 A20-M1-B72 3 2.66 407.2 91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.37 349.2 345 A22-M1-B72 3 2.9 475.1 93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.66 409.1 352 A06-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.51 413.1 100 A20-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.81 407.1 355 A08-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.81 407.1 355 A08-M2-B73 3 2.57 449.1 104 A24-M1-B63 3 2.87 459.1 355 A08-M2-B73 3 2.57 479.1 105 A25-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.59 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.57 479.1 105 A25-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.59 389.1 107 A01-M1-B64 3 2.49 343.1 359 A12-M1-B73 3 2.57 479.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 449.1 109 A04-M1-B64 3 2.49 341.1 360 A12-M2-B73 3 2.57 449.1 100 A05-M1-B64 3 2.49 341.1 360 A12-M2-B73 3 2.57 449.1 11 A06-M1-B64 3 2.49 341.1 362 A14-M1-B73 3 2.55 37 449.1 11 A06-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.57 449.1 11 A06-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.57 449.1 11 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 114 A08-M2-B64 3 2.67 477.1 366 A01-M2-B73 3 2.77 543.1 114 A08-M2-B64 3 2.67 477.1 366 A01-M2-B73 3 2.77 449.1 114 A08-M2-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 115 A09-M1-B64 3 2.55 459.1 369 A03-M1-B74 3 2.67 447.1 116 A09-M2-B64 3 2.56 429.1 365 A01-M1-B74 3 2.69 449.1 117 A10-M1-B64 3 2.55 459.1 371 A04-M2-B73 3 2.41 419.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 459.1 371 A04-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.56 459.1 371 A04-M2-B74 3	88	A08-M2-B63	3	2.64	457.1		341	A18-M2-B72		2.49	
91 A11-M1-B63 3 2.49 439.2 344 A21-M1-B72 3 2.03 295.1 92 A12-M1-B63 3 2.37 349.2 345 A22-M1-B72 3 2.9 475.1 93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.55 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.64 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.51 413.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.51 4413.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.66 449.1 102 A22-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.57 449.1 105 A25-M1-B63 3 2.87 459.1 355 A08-M2-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 359 A12-M1-B73 3 2.58 479.1 106 A26-M1-B63 3 2.87 459.1 359 A12-M1-B73 3 2.58 479.1 107 A01-M1-B64 3 2.47 343.1 359 A12-M1-B73 3 2.58 479.1 107 A01-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 479.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 449.1 114 A06-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 110 A05-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 110 A05-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 111 A06-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 111 A06-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.77 543.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 114 A08-M2-B64 3 2.67 477.1 366 A01-M2-B74 3 2.49 389.1 115 A09-M2-B64 3 2.56 453.1 368 A02-M2-B73 3 2.41 449.2 115 A09-M2-B64 3 2.55 459.1 375 A02-M1-B74 3 2.41 449.2 115 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.56 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.56 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.56 459.1 371 A04-M2-B7	89	A09-M1-B63	3	2.44	433.2		342	A18-M1-B72	3	2.45	
92 A12-M1-B63 3 2.37 349.2 345 A22-M1-B72 3 2.9 475.1 93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.55 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.66 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.67 449.1 102 A22-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.87 459.1 355 A08-M2-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M1-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.58 479.1 106 A26-M1-B64 3 2.47 343.1 359 A12-M1-B73 3 2.59 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 543.1 109 A04-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.57 399.1 114 A06-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.57 399.1 115 A09-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 114 A08-M2-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 115 A09-M1-B64 3 2.56 453.1 369 A02-M1-B74 3 2.44 457.2 115 A09-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 457.2 115 A09-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 447.2 119 A11-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 437.2 119 A11-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.44 437.2 119 A11-M2-B64 3 2.56 453.1 369 A03-M1-B74	90	A10-M1-B63	3	2.56	427.1		343	A20-M1-B72		2.66	
93 A13-M2-B63 3 2.69 503.2 346 A23-M1-B72 3 2.61 373.1 94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M1-B73 3 2.6 449.1 102 A22-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.57 479.1 106 A26-M1-B63 3 2.49 343.1 359 A12-M1-B73 3 2.49 389.1 107 A01-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 449.1 109 A04-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.57 449.1 110 A05-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.77 543.1 109 A04-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B73 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.77 449.1 111 A06-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 419.2 115 A09-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 419.2 115 A09-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 419.2 115 A09-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 371 A04-M2-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 371 A04-M2-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.56 453.1 371 A04-M2-B7	91	A11-M1-B63	3	2.49	439.2		344	A21-M1-B72	3	2.03	295.1
94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.66 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M1-B73 3 2.57 449.1 102 A22-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.67 449.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.87 459.1 355 A08-M2-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.57 479.1 106 A26-M1-B63 3 2.49 431.1 360 A12-M2-B73 3 2.57 479.1 107 A01-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.49 389.1 109 A04-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.57 449.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.57 449.1 110 A05-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.57 449.1 111 A06-M1-B64 3 2.51 433.1 364 A27-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.51 433.1 364 A27-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.51 433.1 364 A27-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.51 453.1 365 A01-M1-B74 3 2.03 367.1 112 A07-M1-B64 3 2.51 453.1 366 A01-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.55 459.1 365 A01-M1-B74 3 2.41 439.2 115 A09-M1-B64 3 2.55 459.1 365 A01-M1-B74 3 2.41 449.2 115 A09-M1-B64 3 2.55 459.1 365 A01-M1-B74 3 2.41 449.2 115 A09-M1-B64 3 2.55 459.1 365 A01-M1-B74 3 2.41 449.2 115 A09-M1-B64 3 2.55 459.1 365 A01-M1-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M1-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 116 A09-M2-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 449.2 118 A11-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.41 449.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 369 A03-M1-B74 3 2.65 515.1 120 A12-M1-B64 3 2.56 453.1 371 A04-M2-B74 3 2.41 437.2 118 A11-M1-B64 3 2.56 453.1 371 A04-M2	92	A12-M1-B63	3	2.37	349.2		345	A22-M1-B72		2.9	475.1
94 A14-M1-B63 3 2.41 335.1 347 A24-M1-B72 3 2.5 393.1 95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.64 409.1 351 A02-M1-B73 3 2.51 413.1 100 A20-M1-B63 3 2.63 441.1 352 A06-M1-B73 3 2.63 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.80 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.8	93	A13-M2-B63	3	2.69	503.2	П	346	A23-M1-B72	3	2.61	373.1
95 A15-M1-B63 3 2.65 418.1 348 A25-M1-B72 3 2.7 425.2 96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 101 A21-M1-B63 3 2.26 329.1 355 A08-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.67 427.1 356 A10-M1-B73 3 2.63 467.1 103 A25-M1-B63 3 2			3	2.41	335.1	П	347	A24-M1-B72	3	2.5	393.1
96 A16-M1-B63 3 2.53 398.2 349 A26-M1-B72 3 2.17 309.2 97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 2.81 407.1 356 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2		 	3	2.65	418.1	П	348	A25-M1-B72	3	2.7	425.2
97 A17-M1-B63 3 2.35 392.2 350 A01-M1-B73 3 2.19 361.1 98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.67 427.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.87 459.1 358 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3		 	3	2.53	398.2		349	A26-M1-B72	3	2.17	309.2
98 A18-M2-B63 3 2.67 409.1 351 A02-M1-B73 3 2.51 413.1 99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.47 459.1 358 A11-M1-B73 3 2.57 479.1 106 A26-M1-B63 3 <td< td=""><td></td><td>A17-M1-B63</td><td>3</td><td>2.35</td><td>392.2</td><td></td><td>350</td><td>A01-M1-B73</td><td>3</td><td>2.19</td><td>361.1</td></td<>		A17-M1-B63	3	2.35	392.2		350	A01-M1-B73	3	2.19	361.1
99 A18-M1-B63 3 2.64 409.1 352 A06-M1-B73 3 2.33 363.1 100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M1-B73 3 2.58 479.1 106 A26-M1-B63 3 2.49 343.1 360 A12-M1-B73 3 2.49 389.1 107 A01-M1-B64 3 <t< td=""><td></td><td>A18-M2-B63</td><td>3</td><td>2.67</td><td>409.1</td><td></td><td>351</td><td>A02-M1-B73</td><td>3</td><td>2.51</td><td>413.1</td></t<>		A18-M2-B63	3	2.67	409.1		351	A02-M1-B73	3	2.51	413.1
100 A20-M1-B63 3 2.83 441.1 353 A07-M1-B73 3 2.6 449.1 101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M1-B73 3 2.58 479.1 106 A26-M1-B63 3 2.47 459.1 358 A11-M2-B73 3 2.58 479.1 106 A26-M1-B64 3 2.17 341.1 360 A12-M1-B73 3 2.49 389.1 107 A01-M1-B64 3 <			3	2.64	409.1		352	A06-M1-B73	3	2.33	363.1
101 A21-M1-B63 3 2.26 329.1 354 A07-M2-B73 3 2.57 449.1 102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M1-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 <			3	2.83	441.1		353	A07-M1-B73	3	2.6	449.1
102 A22-M1-B63 3 3.05 509.1 355 A08-M2-B73 3 2.7 497.1 103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 543.1 110 A05-M1-B64 3 <td< td=""><td></td><td>A21-M1-B63</td><td>3</td><td>2.26</td><td>329.1</td><td>Γ</td><td>354</td><td>A07-M2-B73</td><td>3</td><td>2.57</td><td>449.1</td></td<>		A21-M1-B63	3	2.26	329.1	Γ	354	A07-M2-B73	3	2.57	449.1
103 A23-M1-B63 3 2.81 407.1 356 A10-M1-B73 3 2.63 467.1 104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 <t< td=""><td></td><td></td><td>3</td><td>3.05</td><td>509.1</td><td></td><td>355</td><td>A08-M2-B73</td><td>3</td><td>2.7</td><td>497.1</td></t<>			3	3.05	509.1		355	A08-M2-B73	3	2.7	497.1
104 A24-M1-B63 3 2.67 427.1 357 A11-M1-B73 3 2.57 479.1 105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 <t< td=""><td></td><td>A23-M1-B63</td><td>3</td><td>2.81</td><td>407.1</td><td></td><td>356</td><td>A10-M1-B73</td><td>3</td><td>2.63</td><td>467.1</td></t<>		A23-M1-B63	3	2.81	407.1		356	A10-M1-B73	3	2.63	467.1
105 A25-M1-B63 3 2.87 459.1 358 A11-M2-B73 3 2.58 479.1 106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.77 449.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 <t< td=""><td></td><td></td><td>3</td><td>2.67</td><td>427.1</td><td></td><td>357</td><td>A11-M1-B73</td><td>3</td><td>2.57</td><td>479.1</td></t<>			3	2.67	427.1		357	A11-M1-B73	3	2.57	479.1
106 A26-M1-B63 3 2.4 343.1 359 A12-M1-B73 3 2.47 389.1 107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.31 367.1 114 A08-M2-B64 3 <t< td=""><td></td><td>A25-M1-B63</td><td>3</td><td>2.87</td><td>459.1</td><td></td><td>358</td><td>A11-M2-B73</td><td>3</td><td>2.58</td><td>479.1</td></t<>		A25-M1-B63	3	2.87	459.1		358	A11-M2-B73	3	2.58	479.1
107 A01-M1-B64 3 2.17 341.1 360 A12-M2-B73 3 2.49 389.1 108 A02-M1-B64 3 2.49 393.1 361 A13-M2-B73 3 2.77 543.1 109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.51 453.1 368 A02-M1-B74 3 2.41 419.2 115 A09-M2-B64 3 <			3	2.4	343.1	Γ	359	A12-M1-B73	3	2.47	389.1
109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 366 A01-M2-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M1-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 <		A01-M1-B64	3	2.17	341.1		360	A12-M2-B73	3	2.49	389.1
109 A04-M1-B64 3 2.49 411.1 362 A14-M1-B73 3 2.55 375.1 110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 <	108	A02-M1-B64	3	2.49	393.1	T	361	A13-M2-B73	3	2.77	543.1
110 A05-M1-B64 3 2.72 489 363 A18-M2-B73 3 2.77 449.1 111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2		A04-M1-B64	3	2.49	411.1		362	A14-M1-B73	3	2.55	375.1
111 A06-M1-B64 3 2.31 343.1 364 A27-M2-B73 3 2.78 457.1 112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1			3	2.72	489		363	A18-M2-B73	3	2.77	449.1
112 A07-M1-B64 3 2.56 429.1 365 A01-M1-B74 3 2.08 367.1 113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1			3	2.31	343.1	T	364	A27-M2-B73	3	2.78	457.1
113 A08-M1-B64 3 2.67 477.1 366 A01-M2-B74 3 2.11 367.1 114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1	-		3	2.56	429.1	Ţ	365	A01-M1-B74	3	2.08	367.1
114 A08-M2-B64 3 2.67 477.1 367 A02-M1-B74 3 2.39 419.2 115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1				2.67	477.1	1	366	A01-M2-B74	3	2.11	367.1
115 A09-M1-B64 3 2.51 453.1 368 A02-M2-B74 3 2.41 419.2 116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1				2.67	477.1	T	367	A02-M1-B74	3	2.39	419.2
116 A09-M2-B64 3 2.56 453.1 369 A03-M1-B74 3 2.67 487.1 117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1			3	2.51	453.1		368	A02-M2-B74	3	2.41	419.2
117 A10-M1-B64 3 2.62 447.1 370 A04-M1-B74 3 2.4 437.2 118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1	_					Ī	369	A03-M1-B74	3	2.67	487.1
118 A11-M1-B64 3 2.55 459.1 371 A04-M2-B74 3 2.41 437.2 119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1							370	A04-M1-B74	3	2.4	437.2
119 A11-M2-B64 3 2.59 459.1 372 A05-M1-B74 3 2.59 515.1 120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1						T	371	A04-M2-B74	3	2.41	437.2
120 A12-M1-B64 3 2.46 369.1 373 A05-M2-B74 3 2.6 515.1 121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1	—				+	T	372	A05-M1-B74	3	2.59	515.1
121 A13-M2-B64 3 2.78 523.1 374 A06-M1-B74 3 2.21 369.1						1	373	A05-M2-B74	3	2.6	515.1
2004						1	 			2.21	369.1
						1	375	A06-M2-B74	3	2.23	369.1

,	1	1	1		1	l	107 M4 D74	a 1	0.40	1551
123	A15-M1-B64	3	2.72	438.1	+		A07-M1-B74	3	2.49	455.1
124_	A16-M1-B64	3	2.63	418.1	_		A07-M2-B74	3	1.18	455.1
125	A17-M1-B64	3	2.43	412.1	-		A08-M1-B74	3	2.58	503.1
126	A18-M2-B64	3	2.77	429.1	1		A08-M2-B74	3	2.6	503.1
127	A18-M1-B64	3	2.72	429.1	\perp		A09-M1-B74	3	2.37	479.2
128	A20-M1-B64	3	2.91	461.1	_	381	A09-M2-B74	3	2.4	479.2
129	A21-M1-B64	3	2.36	349.1	\perp	382	A11-M1-B74	3	2.41	485.2
130	A22-M1-B64	3	3.12	529.1	_	383	A11-M2-B74	3	2.44	485.2
131	A23-M1-B64	3	2.89	427.1	4	384	A12-M1-B74	3	2.29	395.2
132	A24-M1-B64	3	2.75	447.1	_		A12-M2-B74	3	2.33	395.2
133	A25-M1-B64	3	2.95	479.1	4	386	A13-M2-B74	3	2.62	549.2
134	A26-M1-B64	3	2.5	363.1	4	387	A13-M1-B74	3	2.69	549.2
135	A01-M1-B65	3	2.35	383.1	4	388	A14-M1-B74	3	2.35	381.1
136	A02-M1-B65	3	2.64	435.2	_	389	A14-M2-B74	3	2.43	381.1
137	A04-M1-B65	3	2.63	453.2	4	390	A15-M1-B74	3	2.58	464.1
138	A05-M1-B65	3	2.83	531.1		391	A16-M1-B74	3	2.47	444.2
139	A06-M1-B65	3	2.47	385.2		392	A17-M1-B74	3	2.28	438.2
140	A07-M2-B65	3	2.68	471.2		393	A18-M2-B74	3	2.61	455.1
141	A08-M1-B65	3	2.79	519.2	Ц	394	A18-M1-B74	3	2.56	455.1
142	A09-M1-B65	3	2.65	495.2	Ц	395	A21-M1-B74	3	2.2	375.1
143	A09-M2-B65	3	2.67	495.2	Ц	396	A22-M1-B74	3	2.97	555.1
144	A10-M1-B65	3	2.75	489.1	Ц	397	A23-M1-B74	3	2.73	453.1
145	A11-M1-B65	3	2.67	501.2	Ц	398	A24-M1-B74	3	2.6	473.1
146	A11-M2-B65	3	2.7	501.2		399	A25-M1-B74	3	2.8	505.1
147	A12-M1-B65	3	2.6	411.2	Ш	400	A26-M1-B74	3	2.33	389.2
148	A14-M1-B65	3	2.71	397.2	Ц	401	A02-M1-B75	3_	2.69	405.1
149	A16-M1-B65	3	2.8	460.2	Ц	402	A05-M1-B75	3	2.93	501
150	A17-M1-B65	3	2.64	454.2	Ц	403	A06-M1-B75	3	2.48	355.1
151	A18-M1-B65	3	2.89	471.2	Ц	404	A08-M1-B75	3	2.93	489.1
152	A20-M1-B65	3	3.07	503.2	Ц	405	A10-M1-B75	3	2.79	459.1
153	A21-M1-B65	3	2.57	391.1	Ц	406	A11-M1-B75	3	2.74	471.1
154	A22-M1-B65	3	3.25		Ц	407	A12-M1-B75	3	2.58	381.1
155	A23-M1-B65	3_	3.05		Ц	408	A14-M1-B75	3	2.44	367.1
156		3	2.93		Ц		A15-M1-B75		2.66	
157	A25-M1-B65	3	3.1	521.2	Ľ	410			2.57	430.1
158	A26-M1-B65	3	2.69		L	411			2.38	424.1
159		3	1.89		\perp	412			2.65	441.1
160		3_	2.22		1	413			2.7	423.1
161	A06-M1-B66	3	2.02		_	414			2.87	473.1
162			2.06		-	415			2.31	361.1
163		3_	2.45		1	416			3.08	541.1
164		3	2.24		1.	417			2.83	439.1
165			2.82		-	418			2.71	459.1
166			2.31		\downarrow	419			2.9	491.1
167			2.34		\downarrow	420			2.43	375.1
168			2.16		_	421		+	2.58	389.1
169			2.21		+	422			2.77	472.1
170		 	2.22		\downarrow	423			2.69	452.1
171			2.46		+	424		 	2.51	446.1
172			2.35		4	425			2.77	463.1 495.1
173	3 A17-M1-B66	3	2.13	420.2		426	A20-M1-B76	3	2.96	1 430.1

		,		1	,		,	1	1	1
174	A18-M2-B66	3	2.51	437.1		427	A21-M1-B76	3	2.45	383.1
175	A18-M1-B66	3	2.44	437.1		428	A22-M1-B76	3	3.15	563.1
176	A20-M1-B66	3	2.65	469.1		429	A23-M1-B76	3	2.93	461.1
177	A21-M1-B66	3	2.06	357.1		430	A24-M1-B76	3	2.8	481.1
178	A22-M1-B66	3	2.87	537.1		431	A25-M1-B76	3	2.99	513.1
179	A24-M1-B66	3	2.49	455.1		432	A26-M1-B76	3	2.57	397.1
180	A25-M1-B66	3	2.69	487.1		433	A06-M1-B77	3	2.47	327.1
181	A26-M1-B66	3	2.19	371.1		434	A08-M1-B77	3	2.89	461.1
182	A27-M2-B66	3	2.51	445.2		435	A11-M1-B77	3	2.69	443.1
183	A01-M1-B67	3	1.91	335.1		436	A12-M1-B77	3	2.54	353.1
184	A01-M2-B67	3	2.01	335.1	٦	437	A14-M1-B77	3	2.4	339.1
185	A02-M1-B67	3	2.26	387.1		438	A16-M1-B77	3	2.53	402.1
186	A02-M2-B67	3	2.35	387.1	T	439	A17-M1-B77	3	2.34	396.1
187	A03-M1-B67	3	2.56	455.1		440	A18-M1-B77	3	2.62	413.1
188	A03-M2-B67	3	2.59	455.1		441	A04-M1-B77	3	2.67	395.1
189	A04-M1-B67	3	2.27	405.1	T	442	A20-M1-B77	3	2.83	445.1
190	A04-M2-B67	3	2.36	405.1		443	A22-M1-B77	3	3.05	513.1
191	A05-M1-B67	3	2.48	483		444	A23-M1-B77	3	2.79	411.1
192	A06-M1-B67	3	2.05	337.1		445	A24-M1-B77	3	2.66	431.1
193	A06-M2-B67	3	2.16	337.1	П	446	A25-M1-B77	3	2.86	463.1
194	A08-M2-B67	3	2.55	471.1	П	447	A26-M1-B77	3	2.39	347.1
195	A09-M1-B67	3	2.3	447.2		448	A02-M1-B78	3	2.55	387.2
196	A09-M2-B67	3	2.34	447.2		449	A05-M1-B78	3	2.79	483.1
197	A10-M1-B67	3	2.4	441.1	Н	450	A06-M1-B78	3	2.35	337.2
198	A11-M1-B67	3	2.35	453.1	Н	451	A08-M1-B78	3	2.79	471.2
199	A11-M2-B67	3	2.4	453.1	Н	452	A10-M1-B78	3	2.67	441.1
200	A12-M1-B67	3	2.21	363.1	Н	453	A11-M1-B78	3	2.63	453.2
201	A12-M1-B67	3	2.27	363.1	H	454	A12-M1-B78	3	2.45	363.2
202	A13-M2-B67	3	2.59	517.1	\vdash	455	A14-M1-B78	3	2.33	349.2
203	A14-M1-B67	3	2.27	349.1	┢	456	A16-M1-B78	3	2.45	412.2
203	A15-M1-B67	3	2.51	432.1	H	457	A17-M1-B78	3	2.27	406.2
205	A16-M1-B67	3	2.38	412.1	t	458	A18-M1-B78	3	2.53	423.2
206	A17-M1-B67	3	2.18		\vdash	459	A04-M1-B78	3	2.57	405.2
207	A18-M2-B67	3	2.54		t	460	A20-M1-B78	3	2.73	455.2
208	A18-M1-B67	3	2.49	 	╁	461	A21-M1-B78	3	2.2	343.1
209	A20-M1-B67	3	2.7	455.1	t	462	A22-M1-B78	3	2.95	523.1
210	A21-M1-B67	3	2.07	····	\dagger	463	A23-M1-B78	3	2.69	421.1
	A22-M1-B67	3	2.93		\vdash	464	A24-M1-B78	3	2.57	441.1
211	A23-M1-B67	3	2.66		t	465	A25-M1-B78	3	2.77	473.2
212		3	2.53		╁	466	A26-M1-B78		2.32	357.2
213	A24-M1-B67	3	2.74	+	╁	467	A05-M1-B79	3	2.76	485.1
214	A25-M1-B67		2.22		╁	468	A06-M1-B79		2.28	339.1
215		3	2.54		╁	469	A08-M1-B79		2.76	473.1
216	A27-M2-B67		1.79	 	+	470	A12-M1-B79		2.4	365.2
217	A01-M1-B68		2.1	325.2	+	471	A14-M1-B79		2.27	351.1
218	A02-M1-B68				+	1	A17-M1-B79		2.2	408.2
219			2.48		+	472			2.53	407.1
220			2.11		+	473	A04-M1-B79		2.69	457.1
221	A04-M2-B68		2.15		+	474			2.91	525.1
222			2.4	421.1	+	475			2.65	423.1
223			1.87		+	476			2.53	443.1
224	A11-M1-B68	3	2.22	391.2		477	A24-M1-B79		2.00	1 770.1

									,	,
225	A13-M1-B68	3	2.51	455.2		478	A25-M1-B79	3	2.73	475.1
226	A14-M1-B68	3	2.04	287.1		479	A26-M1-B79	3	2.24	359.1
227	A15-M1-B68	3	2.35	370.1		480	A05-M1-B80	3	2.75	499
228	A16-M1-B68	3	2.2	350.2		481	A06-M1-B80	3	2.29	353.1
229	A17-M1-B68	3	1.97	344.2		482	A08-M1-B80	3	2.75	487.1
230	A18-M2-B68	3	2.35	361.1		483	A11-M1-B80	3	2.57	469.1
231	A18-M1-B68	3	2.31	361.1		484	A14-M1-B80	3	2.27	365.1
232	A20-M1-B68	3	2.53	393.1		485	A17-M1-B80	3	2.2	422.1
233	A21-M1-B68	3	1.83	281.1		486	A04-M1-B80	3	2.52	421.1
234	A22-M1-B68	3	2.78	461.1		487	A20-M1-B80	3	2.69	471.1
235	A23-M1-B68	3	2.48	359.1		488	A22-M1-B80	3	2.91	539.1
236	A24-M1-B68	3	2.37	379.1		489	A23-M1-B80	3	2.65	437.1
237	A26-M1-B68	3	1.99	295.1		490	A24-M1-B80	3	2.53	457.1
238	A01-M1-B69	3	2.24	335.1	L	491	A25-M1-B80	3	2.73	489.1
239	A01-M2-B69	3	2.26	335.1		492	A26-M1-B80	3	2.25	373.1
240	A02-M1-B69	3	2.52	387.2		493	A02-M1-B81	3	2.59	417.1
241	A03-M1-B69	3	2.81	455.1	L	494	A05-M1-B81	3	2.83	513
242	A04-M1-B69	3	2.52	405.2		495	A06-M1-B81	3	2.39	367.1
243	A05-M1-B69	3	2.73	483.1		496	A08-M1-B81	3	2.83	501.1
244	A05-M2-B69	3	2.15	483.1	L	497	A11-M1-B81	3	2.64	483.1
245	A06-M1-B69	3	2.33	337.2		498	A12-M1-B81	3	2.47	393.1
246	A06-M2-B69	3	2.38	337.2	L	499	A14-M1-B81	3	2.33	379.1
247	A08-M2-B69	3	2.71	471.2		500	A04-M1-B81	3	2.61	435.1
248	A09-M1-B69	3	2.53	447.2		501	A20-M1-B81	3	2.77	485.1
249	A09-M2-B69	3	2.54	447.2		502	A22-M1-B81	3	2.99	553.1
250	A11-M1-B69	3	2.58	453.2	L	503	A23-M1-B81	3	2.73	451.1
251	A12-M1-B69	3	2.47	363.2		504	A24-M1-B81	3	2.6	471.1
252	A12-M2-B69	3	2.48	363.2		505	A25-M1-B81	3	2.8	503.1
253	A13-M2-B69	3	2.76	517.2		506	A26-M1-B81	3	2.33	387.1

$3-methyl-N-\{5-[(3-methylbenzyl)oxy]-1H-indazol-3-$

5 yl}benzenesulfonamide

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane 374 mg of 2-[5-(tert-butyl-dimethyl-silanyloxy)-1Hand indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-10 1,3,2-diazaphosphorine (1.3 mmol) added. The were suspension was stirred for 16 hours and then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum. 15

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The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

40 mg of resin were suspended in 1 ml of dichloromethane and 150 μ l trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

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The resin obtained from the first step (500 mg, ~0.42 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 630 µl of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

2-[6-hydroxy-1H-indazol-3-yl]-isoindole-1,3-dione:HPLC r.t. 20 Method 1: 3.9 [M+H]+= 280.

A sample of the resin obtained from the second step (100 mg, ~ 0.08 mmol) were suspended in 3 ml of 1-methyl-2-2-tert-butylimino-2pyrrolidinone, then 43 μl of diethylamino-1,3-dimethylperhydro-1,3,2-diazaphosphorine 25 (~1.5 eq) and 65 μl of 3-methylbenzylbromide (~6 eq) were added. The suspension was stirred for 16 hours. The and washed with dichloromethane, filtered resin was methanol, dimethylformamide, methanol and dichloromethane.

The resin obtained from the third step (100 mg, ~0.08 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 100 μl of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was

cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again, before drying under vacuum.

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The resin obtained from the fourth step (100 mg, ~0.08 mmol) was suspended in 2.5 ml of dichloromethane and 90 mg of m-toluenesulfonyl chloride (~6eq), 200 μ l of N,N'-diisoproylethylamine (~15 eq) and a catalytic amount of 4-dimethylaminopyridine were added. The suspension was left stirring overnight. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol, and dichloromethane. Before drying under vacuum.

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The resin obtained from the fifth step was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 3

ml of dichloromethane; the collected solutions were dried; the title compound recovered.

3-methyl-N-{5-[(3-methylbenzyl)oxy]-1H-indazol-3yl}benzenesulfonamide_HPLC Method 2 r.t.: 8.79 [M+H]+=408.1

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By working in an analogous way (example 13) the following compounds of table XIII were prepared.

Table XIII

Entry	Compound	HPLC method	r.t. (min)	[M+H]+	Entry	Compound	HPLC method	r.t. (min)	[M+H]+
1	A30-M2-B59	1	4.29	427.1	167	A21-M1-B46	3	1.97	315.1
2	A30-M2-B61	2	8.2	450.1	168	A22-M1-B46	3	2.83	495.1
3	A30-M2-B58	1	4.58	449.2	169	A23-M1-B46	3	2.57	393.1
4	A30-M2-B57	1	4.19	429.1	170	A24-M1-B46	3	2.45	413.1
5	A31-M2-B61	2	7.32	414.1	171	A25-M1-B46	3	2.65	445.1
6	A31-M2-B58	1	4.21	413.2	172	A26-M1-B46	3	2.13	329.1
7	A30-M1-B59		4.2	427.1	173	A27-M2-B46	3	2.44	403.2
8	A30-M1-B61	2	7.86	450.1	174	A01-M1-B47	3	2.11	375.0
9	A30-M1-B58	1	4.51	449.2	175	A02-M2-B47	3	2.47	427.1
10	A30-M1-B57		4.16	429.1	176	A09-M1-B47	3	2.43	487.1
11	A01-M1-B40		2.14	369.1	177	A09-M2-B47	3	2.46	487.1
12	A02-M1-B40		2.48	421.1	178	A10-M1-B47	3	2.53	481.0
13	A03-M1-B40		2.73	489.1	179	A11-M1-B47	3	2.47	493.1
14	A04-M1-B40	3	2.42	439.1	180	A11-M2-B47	3	2.51	493.1
15	A05-M1-B40	3	2.62	517.0	181	A12-M1-B47	3	2.38	403.1
16	A06-M1-B40	3	2.27	371.1	182	A13-M1-B47	3	2.73	557.1
17	A07-M1-B40	3	2.5	457.1	183	A14-M1-B47		2.44	389.1
18	A08-M1-B40	3	2.61	505.1	184	A15-M1-B47		2.64	472.1
19	A09-M1-B40	3	2.54	481.2	185	A16-M1-B47		2.53	452.1
20	A09-M2-B40	3	2.53	481.2	186	A17-M1-B47		2.35	
21	A10-M1-B40	3	2.63	475.1	187	A18-M2-B47		2.71	463.1
22	A10-M2-B40	3	2.61	475.1	188	A18-M1-B47		2.63	
23	A11-M1-B40	3	2.58	487.1	189	A20-M1-B47		2.82	
24	A11-M2-B40	3	2.57	487.1	190	A21-M1-B47		2.27	
25	A12-M1-B40	3	2.5	397.1	191	A23-M1-B47		2.79	
26	A13-M1-B40		2.75	551.2	192	A24-M1-B47		2.67	
27	A01-M1-B41		1.88	333.0	193	A25-M1-B47		2.88	
28	A02-M1-B41		2.13	385.1	194	A26-M1-B47		2.4	397.1
29	A04-M1-B41		2.14		195	A02-M2-B48		2.29	
30	A05-M1-B41		2.43		196			2.46	
31	A06-M1-B41		2	335.0	197			2.48	
32	A07-M1-B41		2.23		198	A06-M1-B48		2	359.1
33	A08-M1-B41		2.35		199			2.48	
34	A09-M1-B41		2.29		200			2.34	
35	A10-M1-B41		2.37		201			2.3	
36	A10-M2-B4		2.35		202			2.33	
37	A11-M1-B4		2.33					2.18	
38	A12-M2-B4		2.18		204			2.51	
39	A14-M1-B4		2.13					2.55	
40	A15-M1-B4		2.37					2.21	
41	A16-M1-B4		2.25					2.45	
42	A17-M1-B4		2.03		208			2.32	
43			2.35					2.12	
44			1.91					2.5	
45			2.51					2.4	
46			2.39					2.0	
47	A25-M1-B4	1 3	2.59	9 471.0	213	A22-M1-B4	3	2.83	3 545.1

			1	11	1		ا ہ	0 == 1	440.4
48	A26-M1-B41	3	2.07	355.0		A23-M1-B48	3	2.57	443.1
49	A01-M1-B42	3	2.15	395.1		A24-M1-B48	3	2.46	463.1
50	A02-M1-B42	3	2.36	447.1		A25-M1-B48	3	2.67	495.1
51	A03-M1-B42	3	2.69	515.0		A26-M1-B48	3	2.17	379.1
52	A04-M1-B42	3	2.35	465.1	218	A27-M2-B48	3	2.47	453.1
53	A05-M1-B42	3	2.55	543.0	219	A09-M1-B49	3	2.58	507.0
54	A06-M1-B42	3	2.19	397.1	220	A02-M1-B50	3	2.5	393.1
55	A07-M1-B42	3	2.49	483.1	221	A05-M1-B50	3	2.73	489.0
56	A08-M1-B42	3	2.6	531.1	222	A06-M1-B50	3	2.27	343.1
57	A09-M1-B42	3	2.49	507.1	223	A08-M1-B50	3	2.74	477.1
58	A10-M1-B42	3	2.57	501.1	224	A10-M1-B50	3	2.6	447.1
59	A11-M1-B42	3	2.51	513.1	225	A11-M1-B50	3	2.55	459.1
60	A11-M2-B42	3	2.51	513.1	226	A12-M1-B50	3	2.4	369.1
61	A12-M1-B42	3	2.43	423.1	227	A14-M1-B50	3	2.25	355.1
62	A12-M2-B42	3	2.41	423.1	228	A15-M1-B50	3	2.5	438.1
63	A01-M1-B43	3	2.16	369.1	229	A16-M1-B50	3	2.38	418.1
64	A02-M1-B43	3	2.45	421.1	230	A18-M1-B50	3	2.47	429.1
65	A03-M1-B43	3	2.75	489.1	231	A04-M1-B50	3	2.49	411.1
66	A04-M1-B43	3	2.44	439.1	232	A20-M1-B50	3	2.67	461.1
67	A05-M1-B43	3	2.68	517.0	233	A21-M1-B50	3	2.11	349.1
68	A06-M1-B43	3	2.34	371.1	234	A22-M1-B50	3	2.88	529.1
69	A07-M1-B43	3	2.51	457.1	235	A23-M1-B50	3	2.62	427.1
70	A08-M1-B43	3	2.62	505.1	236	A24-M1-B50	3	2.51	447.1
71	A09-M1-B43	3	2.56	481.2	237	A25-M1-B50	3	2.71	479.1
72	A09-M2-B43	3	2.55	481.2	238	A26-M1-B50	3	2.21	363.1
73	A10-M1-B43	3	2.64	475.1	239	A02-M1-B51	3	2.42	398.1
74	A10-M2-B43	3	2.63	475.1	240	A05-M1-B51	3	2.67	494.0
75	A11-M1-B43	3	2.59	487.1	241	A06-M1-B51	3	2.18	348.1
76	A11-M2-B43	3	2.58	487.1	242	A08-M1-B51	3	2.68	482.1
77	A14-M1-B43	3	2.51	383.1	243	A10-M1-B51	3	2.53	452.1
78	A15-M1-B43	3	2.7	466.1	244	A11-M1-B51	3	2.49	464.1
79	A16-M1-B43	3	2.59	446.1	245	A12-M1-B51	3	2.32	374.1
80	A17-M1-B43	3	2.42	440.2	246		3	2.17	360.1
81	A18-M2-B43	3	2.76	457.1	247	A15-M1-B51	3_	2.42	443.1
82	A18-M1-B43	3	2.68	457.1	248	A16-M1-B51	3	2.3	423.1
83	A20-M1-B43	3	2.87	489.1	249		3	2.11	417.1
84	A21-M1-B43	3	2.35	377.1	250	A18-M1-B51	3	2.4	434.1
85	A23-M1-B43	3	2.83	455.1	251		3	2.43	416.1
86	A24-M1-B43	3	2.72	475.1	252		3	2.6	466.1
87	A25-M1-B43		2.9	507.1	253	A21-M1-B51	3	2.01	354.1
88			2.47	391.1	254		3	2.82	
89			2.73	465.2	255	A23-M1-B51	3	2.55	
90			2.19	411.1	256	A24-M1-B51	3	2.43	
91			2.65	531.0	257	A25-M1-B51		2.64	
92			2.39	481.1	258	A26-M1-B51	3	2.13	
93			2.57	559.0	259			2.77	
94			2.24	413.1	260	A05-M1-B52		3.01	
95			2.52	499.1	261			2.59	
96			2.53	523.1	262	A08-M1-B52		2.99	
97			2.57	517.1	263	A10-M1-B52		2.86	
98			2.55	5 529.1	264	A11-M1-B52	3	2.79	507.1
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. 1	1	1	1		1		•	0.00	4474
	A11-M2-B44	3	2.53	529.1		A12-M1-B52	3	2.69	417.1
	A12-M1-B44	3	2.47	439.1		A14-M1-B52	3	2.56	403.1
101	A12-M2-B44	3	2.45	439.1		A16-M1-B52	3	2.65	466.1
102	A14-M1-B44	3	2.47	425.1		A17-M1-B52	3	2.47	460.1
103	A15-M1-B44	3	2.65	508.1	269	A04-M1-B52	3	2.77	459.1
104	A16-M1-B44	3	2.55	488.1	270	A20-M1-B52	3	2.93	509.1
105	A17-M1-B44	3	2.39	482.1	271	A21-M1-B52	3	2.4	397.1
106	A18-M2-B44	3	2.71	499.1	272	A22-M1-B52	3	3.13	577.1
107	A18-M1-B44	3	2.63	499.1	273	A23-M1-B52	3_	2.89	475.1
108	A20-M1-B44	3	2.81	531.1	274	A24-M1-B52	3	2.77	495.1
109	A21-M1-B44	3	2.31	419.1	275	A25-M1-B52	3	2.97	527.1
110	A23-M1-B44	3	2.78	497.0	276	A26-M1-B52	3_	2.52	411.1
111	A24-M1-B44	3	2.67	517.1	277	A02-M1-B53	3	2.9	403.2
112	A25-M1-B44	3	2.85	549.1	278	A05-M1-B53	3	3.15	499.1
113	A26-M1-B44	3	2.43	433.4	279	A06-M1-B53	3_	2.69	353.2
114	A27-M2-B44	3	2.69	507.1	280	A08-M1-B53	3_	3.11	487.2
115	A02-M1-B45	3	2.3	415.1	281	A10-M1-B53	3	2.99	457.2
116	A03-M1-B45	3	2.59	483.0	282	A11-M1-B53	3	2.93	469.2
117	A05-M1-B45	3	2.49	511.0	283	A12-M1-B53	3	2.81	379.2
118	A06-M1-B45	3	2.04	365.1	284	A14-M1-B53	3	2.66	365.2
119	A07-M1-B45	3	2.37	451.1	285	A16-M1-B53	3	2.75	428.2
120	A09-M1-B45	3	2.37	475.1	286	A17-M1-B53	3	2.58	422.2
121	A10-M1-B45	3	2.45	469.1	287	A18-M1-B53	3	2.87	439.2
122	A10-M2-B45	3	2.43	469.1	288	A04-M1-B53	3	2.91	421.2
123	A11-M1-B45	3	2.4	481.1	289	A20-M1-B53	3	3.07	471.2
124	A11-M2-B45	3	2.39	481.1	290	A21-M1-B53	3	2.49	359.2
125	A12-M2-B45	3	2.28	391.1	291	A22-M1-B53	3	3.27	539.2
126	A13-M2-B45	3	2.56	545.1	292	A23-M1-B53	3	3.05	437.2
127		3	2.57	545.1	293	A24-M1-B53	3	2.9	457.2
128	A14-M1-B45	3	2.25	377.1	294	A25-M1-B53	3	3.09	489.2
129	A15-M1-B45	3	2.47	460.1	295	A26-M1-B53	3	2.62	373.2
130	A16-M1-B45	3	2.35	440.1	296	A02-M1-B54	3	2.33	439.1
131	A17-M1-B45	3	2.15	434.1	297	A06-M1-B54	3	2.09	389.1
	A18-M2-B45	3	2.52		298			2.61	523.1
	A18-M1-B45	3	2.45		299			2.45	493.1
	A20-M1-B45	3	2.64		300			2.41	505.1
	A21-M1-B45	3	2.05		301			2.24	415.1
136	A23-M1-B45	3	2.6	449.0	302			2.09	401.1
137		3	2.49		303			2.05	458.1
138		3	2.68		304		1	2.32	475.1
139		3	2.21		305				
140			2.49		306			2.51	507.1
141			1.87		307			2.74	+
142			2.25		308			2.45	473.1
143			2.26		309			2.36	
	A03-M1-B46		2.49		310			2.56	
145			2.52		311			2.04	
146	A04-M1-B46		2.2		312			2.59	
147			2.41		313			2.39	
148			2.46		314			2.83	
149	A06-M1-B46	3	1.99	309.1	315	A10-M1-B55	<u>n</u> 3	2.09	483.1

150	A07-M1-B46	3	2.28	395.1	316	A11-M1-B55	3	2.64	495.1
151	A08-M1-B46	3	2.41	443.1	317	A12-M1-B55	3	2.51	405.1
152	A08-M2-B46	3	2.46	443.1	318	A14-M1-B55	3	2.39	391.1
153	A09-M1-B46	3	2.25	419.2	319	A04-M1-B55	3	2.59	447.1
154	A09-M2-B46	3	2.26	419.2	320	A20-M1-B55	3	2.75	497.1
155	A10-M1-B46	3	2.34	413.1	321	A21-M1-B55	3	2.23	385.1
156	A11-M1-B46	3	2.3	425.1	322	A22-M1-B55	3	2.96	565.1
157	A11-M2-B46	3	2.32	425.1	323	A23-M1-B55	3	2.71	463.1
158	A12-M1-B46	3	2.17	335.1	324	A24-M1-B55	3	2.6	483.1
159	A13-M2-B46	3	2.49	489.1	325	A25-M1-B55	3	2.79	515.1
160	A13-M1-B46	3	2.55	489.1	326	A26-M1-B55	3	2.35	399.1
161	A14-M1-B46	3	2.17	321.1	327	A20-M1-B56	3	2.61	498.1
162	A15-M1-B46		2.42	404.1	328	A23-M1-B56	3	2.57	464.1
163	A16-M1-B46	3	2.3	384.1	329	A24-M1-B56	3	2.46	484.1
164	A17-M1-B46	3	2.09	378.1	330	A25-M1-B56	3	2.66	516.1
165	A18-M2-B46		2.47	395.1	331	A26-M1-B56	3	2.15	400.1
166	A18-M1-B46		2.4	395.1					

4-isopropyl-N-{6-[(3-methylbenzyl)oxy]-1H-indazol-3-yl}benzenesulfonamide

- 500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane and 374 mg of 2-[6-(tert-butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-
- 10 1,3,2-diazaphosphorine (1.3 mmol) were added. The suspension was stirred for 16 hours and then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum.
- The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:
 - 40 mg of resin were suspended in 1 ml of dichloromethane and 150 μ l trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

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The resin obtained from the first step (500 mg, ~0.42 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 630 μl of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

2-[6-hydroxy-1H-indazol-3-yl]-isoindole-1,3-dione:HPLC r.t. Method 1: 3.9 [M+H]+= 280.

A sample of the resin obtained from the second step (100 mg, ~0.08 mmol) was suspended in 1.5 ml of tetrahydrofuran round bottom flask, 209 anhydrous. In a triphenylphosphine (0.8mmol, ~10eq) were dissolved in 2 ml of tetrahydrofuran anhydrous, then 157 μl of diisopropyl azodicarboxylate (0.8 mmol, ~10eq) and 145 μl of 3methylbenzyl alcohol (1.2 mmol, ~15eq) were gently added at 0°C. The solution was left shaking 2 h, then it was transferred into the suspension of the resin. The suspension was stirred overnight then the resin was dichloromethane, methanol, with and washed filtered

dimethylformamide, methanol and dichloromethane.

25 The procedure is repeated twice.

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The resin obtained from the third step (100 mg, ~0.08 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 100 μ l of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again, before drying under vacuum.

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The resin obtained from the fourth step (100 mg, ~0.08 mmol) was suspended in 2.5 ml of dichloromethane and 111 mg of 4-tert-butylbenzenesulfonyl chloride (~6eq), 200 μ l of N,N'-diisoproylethylamine (~15 eq) and a catalytic amount of 4-dimethylaminopyridine were added. The suspension was left stirring overnight. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol, and dichloromethane. Before drying under vacuum.

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The resin obtained from the fifth step was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μl of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 3 ml of dichloromethane; the collected solutions were dried; the title compound recovered.

4-isopropyl-N-{6-[(3-methylbenzyl)oxy]-1H-indazol-3yl}benzenesulfonamide HPLC Method 3 r.t.2.69, [M+H]+= 436.2

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By working in an anlogous way (example 14) the following compounds of table XIV were prepared.

Table XIV

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Entry	Compound	HPLC Method	r.t. (min)	[M+H]+	Entry	Compound	HPLC Method	r.t. (min)	[M+H]+
1	A50-M2-B41	3	2.45	364.1	43	A56-M2-B46	3	2.5	338.1
2	A51-M1-B41		2.36	416.1	44	A57-M2-B46	3	2.69	352.2
3	A52-M1-B41	3	1.84	310	45	A58-M2-B46	3	2.71	364.2
4	A53-M1-B41	3	2.19	370.1	46	A59-M2-B46	3	2.48	380.1
1	A57-M2-B41		2.65	378.1	47	A60-M2-B46	3	2.97	382.2
6	A60-M2-B41	3	2.93	408.1	48	A61-M2-B46	3	1.36	381.2

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7	A50-M2-B43	3	2.82	400.2		49	A62-M2-B46	3	2.51	326.1
8	A50-M1-B43	3	2.76	400.2		50	A30-M1-B47	3	2.64	442.1
9	A51-M1-B43	3	2.69	452.2		51	A30-M2-B47	_ 3	2.67	442.1
10	A52-M1-B43	3	2.32	346.1		52	A50-M1-B47	3	2.71	406.1
11	A53-M1-B43	3	2.55	406.2		53	A50-M2-B47	3	2.76	406.1
12	A55-M2-B43	3	1.69	417.2		54	A51-M1-B47	3	2.64	458.1
13	A56-M2-B43	3	2.83	400.2		55	A52-M1-B47	3	2.25	352
14	A57-M2-B43	3	3	414.2		56	A53-M1-B47	3	2.49	412.1
15	A58-M2-B43	3	3.01	426.2		57	A55-M2-B47	3	1.63	423.1
16	A59-M2-B43	3	2.77	442.1		58	A56-M2-B47	3	2.77	406.1
17	A60-M2-B43	3	2.95	444.2		59	A57-M2-B47	3	2.94	420.1
18	A61-M2-B43	3	1.71	443.2		60	A58-M2-B47	3	2.95	432.1
19	A50-M1-B44	3	2.71	442.1		61	A59-M2-B47	3	2.72	448
20	A50-M2-B44	3	2.76	442.1		62	A60-M2-B47	3	3.19	450.2
21	A51-M1-B44	3	2.65	494.1		63	A61-M2-B47	3	1.65	449.1
22	A52-M1-B44	3	2.29	388.1		64	A62-M2-B47	3	2.77	394.1
23	A53-M1-B44	3	2.51	448.1		65	A50-M2-B48	3	2.53	388.1
24	A55-M2-B44	3	1.67	459.1		66	A51-M1-B48	3	2.43	440.1
25	A56-M2-B44	3	2.76	442.1		67	A52-M1-B48	3	1.96	334.1
26	A59-M2-B44	3	2.73	484.1		68	A53-M1-B48	3	2.27	394.1
27	A60-M2-B44	3	3.17	486.2		69	A55-M2-B48	3	1.41	405.2
28	A50-M2-B45	3	2.55	394.1		70	A56-M2-B48	3	2.54	388.1
29	A51-M1-B45	3	2.45	446.1		71	A60-M2-B48	3	2.99	432.2
30	A52-M1-B45	3	2	340		72	A51-M1-B50	3	2.49	424.1
31	A53-M1-B45	3	2.31	400.1	L	73	A53-M1-B50	3	2.31	378.1
32	A55-M2-B45	3	1.42	411.1		74	A51-M1-B51	3_	2.41	429.1
33	A56-M2-B45	3	2.56	394.1	<u> </u>	75	A52-M1-B51	3	1.97	323.1
34	A59-M2-B45	3	2.53	436.1		76	A53-M1-B51	3	2.23	383.1
35	A60-M2-B45	3	3	438.2		77	A52-M1-B52	3	2.4	366.1
36	A62-M2-B45	3	2.57	382.1		78	A53-M1-B52	3	2.61	426.1
37	A50-M1-B46	3	2.44	338.1		79	A51-M1-B53	3	2.87	434.2
38	A50-M2-B46	3	2.49	338.1		80	A52-M1-B53	. 3	2.48	
39	A51-M1-B46	3	2.41	390.1		81	A53-M1-B53	3	2.71	388.2
40	A52-M1-B46	3	1.9	284.1		82	A53-M1-B54	3	2.15	
41	A53-M1-B46	3	2.25	344.1		83	A53-M1-B55	3	2.43	414.1
42	A55-M2-B46	3	1.33	355.2						<u></u>

3-phenyl-N-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-

5 yl]propanamide

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane and 374 mg of 2-[6-(tert-butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-

1,3,2-diazaphosphorine (1.3 mmol) were added. The suspension was stirred for 16 hours and then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane again. The resin was then dried under vacuum.

The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

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40 mg of resin were suspended in 1 ml of dichloromethane and 150 μ l trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

The resin obtained from the first step (500 mg, ~0.425 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 500 μ l of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again before drying under vacuum.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine HPLC r.t. Method 1: 5.99 [M+H]+= 264 [M-H]-= 262

A sample of the resin obtained from the second step (100 mg, 0.08 mmol) was suspended in 2.5 ml of dichloromethane; N,N'-diisoproylethylamine (131 μ l, ~10 eq) and hydrocinnamoyl chloride (35 μ l, 0.24 mmol, ~3eq) were added. Stirring at room temperature was maintained for 20 hours, then the resin was filtered and washed with

dichloromethane, methanol, dimethylformamide, methanol and dichloromethane again before drying under vacuum.

The resin obtained from the third step (100 mg, ~ 0.08 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~ 1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

The resin obtained from the fourth step (100 mg, ~0.08 mmol) was suspended in 1 ml of tetrahydrofuran anhydrous. In a round bottom flask, 209 mg of triphenylphosphine (0.8mmol, ~10eq) were dissolved in 2 ml of tetrahydrofuran anhydrous, then 157 μ l of diisopropyl azodicarboxylate (0.8 mmol, ~10eq) and 147 μ l of 1-(2-hydroxyethyl)pyrrolidine (1.2 mmol, ~15eq) were gently added at 0°C. The solution was left shaking 2 h, then transferred into the suspension of the resin.

The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

The procedure is repeated twice.

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100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 μl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 3 ml of dichloromethane; the collected solutions were dried and the desired title compound recovered.

3-phenyl-N-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-yl]propanamide HPLC r.t. Method 1: 2.99 [M+H]+= 379.2

By proceeding in a manner similar to that of Example 15, 2-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin, then, by following the described synthetic scheme, the following products were synthesized.

2-(4-tert-butylphenoxy)-N-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-yl]acetamide HPLC Method 2 r.t. 6.65 [M+H]+=437.2

2-(4-methoxyphenyl)-N-[5-(2-pyrrolidin-1-ylethoxy)-1Hindazol-3-yl]acetamide HPLC Method 2 r.t. 4.56 [M+H]+=
395.2

By proceeding in the same way of example 15, 195 products of table XV were synthesized in parallel.

Table XV

Entry	Compound	HPLC Method	r.t. (min)	[M+H]+		Entry	Compound	HPLC Method	r.t. (min)	[M+H]+
1	A65-M1-B36	2	9.55	458.2		99	A57-M2-B08	3	2.8	380.2
2	A52-M1-B36	1	4.52	296.1		100	A59-M2-B08	3	2.62	408.1
3	A65-M1-B31	2	8.97	394.2		101	A60-M2-B08		3.1	410.2
4	A64-M1-B31	1	1.6	315.2		102	A61-M2-B08		1.57	409.2
5	A66-M1-B31	1	6.06	302.2		103	A50-M2-B09		2.96	378.2
6	A67-M1-B31	1	3.86	343.1	Γ	104	A51-M1-B09	3	2.81	430.2
7	A68-M1-B31	2	6.63	270.1		105	A52-M1-B09	<u></u>	2.43	324.2
8	A69-M1-B31	1	1.9	329.2		106	A53-M1-B09	3	2.66	384.2
9	A65-M1-B15	2	10.3	516.3		107	A55-M2-B09	3	1.83	395.2
10	A66-M1-B15	2	10.4	424.3		108	A59-M2-B09	3	2.95	420.2
11	A67-M1-B15		6.27	465.2	Γ	109	A60-M2-B09	3	3.4	422.3
12	A68-M1-B15	2	9.15	392.2	Г	110	A61-M2-B09	3	1.87	421.3
13	A70-M1-B15		9.21	424.2	Γ	111	A50-M2-B10	3	2.41	382.2
14	A71-M1-B15	 	8.95	517.2	Γ	112	A51-M1-B10	3	2.31	434.2
15	A65-M1-B35	2	9.32	474.2	Γ	113	A52-M1-B10	3	1.81	328.1
16	A67-M2-B15	2	9.65	465.2	Γ	114	A53-M1-B10	3	2.13	388.2
17	A68-M2-B15		9.27	392.2	Γ	115	A55-M2-B10	3	1.37	399.2
18	A52-M2-B35	2	7.17	312.1	T	116	A56-M2-B10	3	2.45	382.2
19	A50-M2-B01	3	2.51	322.1	T	117	A59-M2-B10	3	2.45	424.1
20	A50-M1-B01		2.44	322.1	T	118	A60-M2-B10	3	2.95	426.2
21	A51-M1-B01		2.38	374.1	T	119	A61-M2-B10	3	1.43	425.2
22	A52-M1-B01		1.85		T	120	A50-M2-B11	3	2.54	340.1
23	A53-M1-B01		2.19	328.1	T	121	A51-M1-B11	3	2.41	392.1

							,	1	1	1
24	A55-M2-B01	3	1.38	339.2		122	A52-M1-B11	3	1.9	286.1
25	A56-M2-B01	3	2.51	322.1		123	A53-M1-B11	3	2.23	346.1
26	A57-M2-B01	3	2.7	336.2		124	A55-M2-B11	3	1.39	357.2
27	A60-M2-B01	3	3.02	366.2		125	A56-M2-B11	3	2.56	340.1
28	A61-M2-B01	3	1.44	365.2		126	A57-M2-B11	3	2.76	354.2
29	A50-M2-B02	3	2.51	366.1		127	A59-M2-B11	3	2.56	382.1
30	A50-M1-B02	3	2.44	366.1		128	A60-M2-B11	3	3.07	384.2
31	A51-M1-B02	3	2.38	418.1		129	A61-M2-B11	3	1.46	383.2
32	A52-M1-B02	3	1.88	312.1		130	A50-M2-B12	3	2.81	406.1
33	A53-M1-B02	3	2.21	372.1		131	A51-M1-B12	3	2.68	458.1
34	A55-M2-B02	3	1.41	383.2		132	A52-M1-B12	3	2.28	352.1
35	A56-M2-B02	3	2.51	366.1		133	A53-M1-B12	3	2.53	412.1
36	A57-M2-B02	3	2.7	380.2		134	A55-M2-B12	3	1.73	423.2
37	A59-M2-B02	3	2.51	408.1		135	A56-M2-B12	3	2.83	406.1
38	A60-M2-B02	3	3.01	410.2		136	A57-M2-B12	3	3	420.1
39	A61-M2-B02	3	1.46	409.2		137	A58-M2-B12	3	3.01	432.1
40	A62-M2-B02	3	2.51	354.1	Н	138	A59-M2-B12	3	2.81	448.1
41	A50-M2-B03	 3	2.71	372.2		139	A60-M2-B12	3	3.27	450.2
42	A50-M2-B03	3	2.65	372.2		140	A61-M2-B12	3	1.77	449.2
43	A51-M1-B03	3	2.56	424.2	-	141	A50-M2-B13	3	2.05	371.2
44	A51-W1-B03	3	2.13	318.1		142	A55-M2-B13	3	1.09	388.2
45	A53-M1-B03	3	2.39	378.2	\vdash	143	A56-M2-B13	3	2.09	371.2
46	A55-M2-B03	3	1.58	389.2	H	144	A59-M2-B13	3	2.1	413.2
47	A57-M2-B03	3	2.89	386.2	\vdash	145	A50-M2-B14	3	2.63	366.2
48	A58-M2-B03	3	2.89	398.2	\vdash	146	A51-M1-B14	3	2.51	418.2
49	A61-M2-B03	3	1.63	415.2	 -	147	A52-M1-B14	3	2.04	312.1
50	A50-M2-B04	3	2.33	312.1	T	148	A53-M1-B14	3	2.37	372.2
51	A51-M1-B04	3	2.23	364.1	┢	149	A55-M2-B14	3	1.51	383.2
52	A52-M1-B04	3	1.62	258.1	H	150	A56-M2-B14	3	2.63	366.2
53	A53-M1-B04	3	2.03	318.1	\dagger	151	A57-M2-B14	3	2.81	380.2
54	A55-M2-B04	3	1.21	329.2	T	152	A59-M2-B14	3	2.6	408.1
55	A56-M2-B04	3	2.33	312.1		153	A60-M2-B14	3	3.08	410.2
56		3	2.53	326.1	+		A62-M2-B14	3	2.65	354.2
57	A59-M2-B04		2.35		t		A51-M1-B16	3	2.07	342.1
58	A60-M2-B04	3	2.87		t	156		3	1.38	236.1
59	A61-M2-B04	3	1.27	355.2	t	157		3	1.82	296.1
60	A62-M2-B04		2.33		t	158		3	2.18	431.2
61	A50-M2-B05	3	2.57	365.2	†	159		3	1.65	325.1
62	A51-M1-B05	3	2.43		┪	160		3	2.05	385.2
63	A52-M1-B05		1.92		+	161			2.6	452.1
64	A53-M1-B05		2.26	 	t	162			2.15	346
65			1.46		t	163			2.43	406
66	A56-M2-B05		2.57		\dagger		A51-M1-B19		2.42	392.1
67	A57-M2-B05		2.76	 	t		A52-M1-B19		1.92	286.1
68	A59-M2-B05		2.57	_	\dagger	166			2.25	
69			3.08		+	167			2.81	446.2
70			1.51		\dagger	168			2.43	
71	A50-M1-B06		2.75		+		A53-M1-B20		2.65	
72			2.78		\dagger		A51-M1-B21		2.63	
73			2.64		\dagger	171			2.18	
74			2.24		\dagger		A53-M1-B21		2.45	380.1
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75	A53-M1-B06	3	2.48	396.1		173	A51-M1-B22	3	2.61	468.2
76	A55-M2-B06	3	1.69	407.2		174	A52-M1-B22	3	2.2	362.1
77	A56-M2-B06	3	2.81	390.1		175	A53-M1-B22	3	2.45	422.2
78	A57-M2-B06	3	2.97	404.2		176	A51-M1-B23	3	2.53	414.1
79	A58-M2-B06	3	2.97	416.2		177	A52-M1-B23	3	2.03	308
80	A59-M2-B06	3	2.78	432.1		178	A53-M1-B23	3	2.35	368.1
81	A61-M2-B06	3	1.73	433.2		179	A51-M1-B24	3	2.25	393.1
82	A50-M2-B07	3	2.98	390.1		180	A52-M1-B24	3	1.67	287.1
83	A51-M1-B07	3	2.8	442.1	Γ	181	A53-M1-B24	3	2.05	347.1
84	A52-M1-B07	3	2.39	336	Г	182	A51-M1-B25	3	2.61	402.2
85	A53-M1-B07	3	2.63	396.1		183	A52-M1-B25	3	2.17	296.1
86	A55-M2-B07	3	1.77	407.1		184	A53-M1-B25	3	2.44	356.2
87	A56-M2-B07	3	2.99	390.1		185	A51-M1-B26	3	3.62	396.2
88	A57-M2-B07	3	3.17	404.1		186	A52-M1-B26	3	3.43	290.2
89	A59-M2-B07	3	2.95	432		187	A53-M1-B26	3	3.51	350.2
90	A60-M2-B07	3	3.45	434.1		188	A57-M2-B26	3	2.98	358.2
91	A61-M2-B07	3	1.81	433.1		189	A60-M2-B26	3	3.25	388.3
92	A30-M1-B08	3	2.53	402.2		190	A51-M1-B27	3	2.49	434.2
93	A50-M2-B08	3	2.6	366.2		191	A52-M1-B27	3	2.03	328.1
94	A51-M1-B08	3	2.5	418.2		192	A53-M1-B27	3	2.32	388.2
95	A52-M1-B08	3	2.04	312.1		193	A51-M1-B28	3	2.63	571.2
96	A53-M1-B08	3	2.33	372.2		194	A52-M1-B28	3	2.28	465.2
97	A55-M2-B08	3	1.52	383.2		195	A53-M1-B28	3	2.49	525.2
98	A56-M2-B08	3	2.61	366.2					<u></u>	

$N-(5-\{[5-(benzyloxy)pentyl]oxy\}-1H-indazol-3-yl)-N'-$

5 <u>isopropylurea</u>

500 mg of Novabiochem trityl resin (declared substitution 1.27 mmol/g, 0.64 mmol) were suspended in dichloromethane 374 mg of 2-[5-(tert-butyl-dimethyl-silanyloxy)-1Hand indazol-3-yl]-isoindole-1,3-dione (0.9 mmol) and 367 μl of 2-tert-butylimino-2-diethylamino-1,3-dimethylperhydro-10 added. The (1.3)mmol)were 1,3,2-diazaphosphorine suspension was stirred for 16 hours and then the resin was and washed with dichloromethane, methanol, filtered dimethylformamide, methanol and dichloromethane again. The 15 resin was then dried under vacuum.

The identity of the resin and the yield of the loading step were checked by cleavage of the loaded product:

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40 mg of resin were suspended in 1 ml of dichloromethane and $150^{\circ}\,\mu l$ trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 1 ml of dichloromethane; the collected solutions were dried and 13.8 mg of titled compound recovered. Calculated loading 0.85 mmol/g, HPLC r.t. Method 1: 7.64 [M+H]+= 394.

The resin obtained from the first step (500 mg, ~0.425 mmol) was suspended in 5 ml of a mixture of dichloromethane and methanol 1:1 and 500 μ l of hydrazine monohydrate were added. The suspension was heated to 45°C. Heating and stirring were continued overnight, and then the mixture was cooled down to room temperature. The resin was filtered and washed with a mixture of methanol and water 1:1, methanol, dimethylformamide, and methanol again before drying under vacuum.

The identity of the resin was checked by cleavage. The reaction was performed as described above.

6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-amine HPLC 20 r.t. Method 1: 5.99 [M+H]+= 264 [M-H]-= 262

A sample of the resin obtained from the second step (100 mg, 0.08 mmol) was suspended in 2 ml of dimethylformamide; isopropyl isocyanate (39 μ l, 0.4 mmol, ~5 eq) was added. The suspension was heated to 50°C. Stirring and heating was maintained for 60 hours, then the suspension was cooled down to room temperature. The resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

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The resin obtained from the third step (100 mg, ~ 0.08 mmol) was suspended in 3 ml of tetrahydrofuran anhydrous and 120 μ l of a solution 1 M of tetrabutylammonium fluoride in tetrahydrofuran (~ 1.5 eq) were added. The suspension was stirred overnight then the resin was filtered and washed

with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane, before drying under vacuum.

The resin obtained from the fourth step (100 mg, ~0.08 mmol) was suspended in 1 ml of tetrahydrofuran anhydrous. In a round bottom flask, 209 mg of triphenylphosphine (0.8 mmol, ~10 eq) were dissolved in 2 ml of tetrahydrofuran anhydrous, then 157 μ l of diisopropyl azodicarboxylate (0.8 mmol, ~10 eq) and 230 μ l of 5-benzyloxy-1-pentanol (1.2 mmol, ~15 eq) were gently added at 0°C. The solution was left shaking 2 h, then transferred into the suspension of the resin.

The suspension was stirred overnight then the resin was filtered and washed with dichloromethane, methanol, dimethylformamide, methanol and dichloromethane.

The procedure is repeated twice.

100 mg of dry resin were suspended in 3 ml of dichloromethane and 450 µl trifluoroacetic acid were added. After 2 hours the resin was drained and washed twice with 3 ml of dichloromethane; the collected solutions were dried and the desired title compound recovered.

N-(5-{[5-(benzyloxy)pentyl]oxy}-1H-indazol-3-yl)-N'-isopropylurea HPLC Method 1 r.t.6.75 [M+H]+=411.2

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By proceeding in a manner similar to that of example 16, 2-(6-{[tert-butyl(dimethyl)silyl]oxy}-1H-indazol-3-yl)-1H-isoindole-1,3(2H)-dione and 2-[5-(tert-Butyl-dimethyl-silanyloxy)-1H-indazol-3-yl]-isoindole-1,3-dione were supported on the resin, then, by following the described synthetic scheme, the following products were synthesized.

N-[5-(but-3-ynyloxy)-1H-indazol-3-yl]-N'-isopropylurea HPLC Method 1 r.t. 4.77 [M+H]+= 287.1

N-benzyl-N'-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-

35 yl]urea HPLC Method 1 r.t. 3.28 [M+H]+= 380.2

N-isopropyl-N'-{5-[2-(4-methyl-1,3-thiazol-5-yl)ethoxy]-1Hindazol-3-yl}urea HPLC Method 2 r.t. 8.02 [M+H]+= 360.1

By proceeding in the same way of example 16, 95 products of table XVI were synthesized in parallel.

Table XVI

							 		
		Method	r.t.				Method	r.t.	
Entry		HPLC		[M+H]+	Entry	Compound	HPLC		[M+H]+
	A65-M1-B83	1 1	7.3	459.2		A59-M2-B70	3	2.75	
	A66-M1-B83	1	7.41	367.2		A60-M2-B70	3	3.22	447.2
	A67-M1-B83	2	8.53	408.1		A62-M2-B70	3	2.77	391.2
	A64-M1-B68	1	2.42			A50-M2-B71	3	2.57	369.2
	A66-M1-B68	1	6.78			A51-M1-B71	3	2.5	421.2
	A68-M1-B68		4.77	287.1		A52-M1-B71	3	2.08	315.1
	A50-M2-B62		2.67	367.2		A53-M1-B71	3	2.36	375.2
	A50-M1-B62		2.61	367.2		A54-M2-B71	3	2.59	433.2
	A51-M1-B62	3	2.55			A55-M2-B71	3	1.94	386.2
	A52-M1-B62	3		313.1	58	BA57-M2-B71	3	2.75	383.2
	A53-M1-B62				59	A60-M2-B71	3	3.05	413.2
	A54-M2-B62	3			60	A61-M2-B71	3	1.54	412.2
	A50-M1-B63				6	1 A62-M2-B71	3	2.63	357.2
	A50-M2-B63				6:	2 A50-M2-B72	3	2.51	317.2
	A51-M1-B63	 			6	3 A51-M1-B72			369.2
	A52-M1-B63		2.22	297.1	6	4 A52-M1-B72			263.1
	A53-M1-B63		2.5	357.2	6	5 A53-M1-B72			323.2
	A51-M1-B64		2.73	423.1	6	6 A54-M2-B72			381.2
	A52-M1-B64	1	2.34	317.1	6	7 A55-M2-B72			334.2
20	A53-M1-B64	3	2.59	377.1	6	8 A57-M2-B72			
21	A50-M2-B65	3	3.05	413.2	6	9 A60-M2-B72			
22	A51-M1-B65	3	2.9	465.2	7	0 A61-M2-B72			
23	A52-M1-B65	3	2.57	359.1	7	1 A50-M2-B73			
24	A53-M1-B65	3	2.78	419.2	7	2 A54-M2-B73			
25	A62-M2-B65	3	3.05	401.2	7	3 A50-M2-B74			
26	A50-M2-B66	3	2.54	379.2		4 A50-M1-B74			-} -
27	A51-M1-B66	3	2.45	431.2		5 A51-M1-B74			
28	A52-M1-B66	3	1.99			6 A52-M1-B74			
29	A53-M1-B66			385.2		7 A53-M1-B74			
	A59-M2-B66			421.1		8 A60-M2-B74			
3′	A50-M2-B67	' 3	2.58	365.2	. 7	9 A51-M1-B75			
32	A51-M1-B67		-	417.1		0 A52-M1-B75			
33	A52-M1-B67	' 3	2.03			1 A53-M1-B75			
34	1A53-M1-B67		+	371.1		2 A51-M1-B76			
38	A60-M2-B67	' 3	3.09			3 A52-M1-B76			
	A50-M2-B68		2.35			4 A53-M1-B76			
	A51-M1-B68					5 A52-M1-B7			
38	A52-M1-B68	3 3	1.76	3 249.1	8	6 A53-M1-B7	7 3	3 2.48	8 361.1

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39	A53-M1-B68	3	2.16	309.2	87	A51-M1-B78	3	2.55	417.2
40	A57-M2-B68	3	2.58	317.2	88	A53-M1-B78	3	2.4	371.2
41	A62-M2-B68	3	2.37	291.2	89	A51-M1-B79	3	2.5	419.2
42	A50-M2-B69	3	2.84	365.2	90	A52-M1-B79	3	2.07	313.1
43	A51-M1-B69	3	2.75	417.2	91	A53-M1-B79	3	2.35	373.2
44	A52-M1-B69	3	2.35	311.1	92	A52-M1-B80	3	2.08	327.1
45	A53-M1-B69	3	2.61	371.2	93	A53-M1-B80	3	2.35	387.1
46	A61-M2-B69	3	1.71	408.2	94	A52-M1-B81	3	2.16	341.1
47	A50-M2-B70	3	2.77	403.2	95	A53-M1-B81	3	2.43	401.2
48	A57-M2-B70	3	2.95	417.2					

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CLAIMS

1. A method for treating diseases caused by and/or associated with an altered protein kinase activity which comprises administering to a mammal in need thereof an effective amount of an aminoindazole derivative represented by formula (I)

$$(R_1O)_{\overline{m}} \xrightarrow{R} N$$

$$N$$

$$H$$

$$(I)$$

wherein

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R is selected from the group consisting of -NHR', -NR'R", -NHCOR', -NHCONHR', -NHCONR'R", -NHSO $_2$ R' or -NHCOOR', wherein R' and R" are, each independently, a group optionally further substituted selected from straight or branched C_1 - C_6 alkyl, C_2 - C_6 alkenyl or alkynyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 6 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur; or R is a phthalimido group of formula (II) below

any R_1 , if present, is in position 5 or 6 of the indazole ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1;

or a pharmaceutically acceptable salt thereof.

2. The method of claim 1 wherein the disease caused by and/or associated with an altered protein kinase activity is a cell proliferative disorder selected from the group

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consisting of cancer, Alzheimer's disease, viral infections, auto-immune diseases and neurodegenerative disorders.

- The method of claim 2 wherein the cancer is selected 5 from carcinoma, squamous cell carcinoma, hematopoietic or myeloid lineage, tumors of lymphoid tumors mesenchymal origin, tumors of the central and peripheral teratocarcinoma, seminoma, system, melanoma, keratoxanthoma, pigmentosum, xeroderma osteosarcoma, 10 thyroid follicular cancer and Kaposi's sarcoma.
- 4. The method of claim 1 wherein the cell proliferative disorder is selected from benign prostate hyperplasia,
 15 familial adenomatosis, polyposis, neuro-fibromatosis, psoriasis, vascular smooth cell proliferation associated with atherosclerosis, pulmonary fibrosis, arthritis glomerulonephritis and post-surgical stenosis and restenosis.

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- 5. The method of claim 1 which provides tumor angiogenesis and metastasis inhibition.
- 6. The method of claim 1 further comprising subjecting the mammal in need thereof to a radiation therapy or chemotherapy regimen in combination with at least one cytostatic or cytotoxic agent.
- 7. The method of claim 1 wherein the mammal in need thereof is a human.
 - 8. A method for inhibiting protein kinase activity which comprises contacting the said kinase with an effective amount of a compound of formula (I) as defined in claim 1.

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9. An aminoindazole derivative represented by formula (I)

$$(R_1O)_{\overline{m}}$$
 N N N N

wherein

R is selected from the group consisting of -NHR', -NR'R",
-NHCOR', -NHCONHR', -NHCONR'R", -NHSO₂R' or -NHCOOR',

wherein R' and R" are, each independently, a group optionally further substituted selected from straight or branched C₁-C₆ alkyl, C₂-C₆ alkenyl or alkynyl, C₃-C₆ cycloalkyl or cycloalkyl C₁-C₆ alkyl, aryl, aryl C₁-C₆ alkyl,

or 6 membered heterocyclyl or heterocyclyl C₁-C₆ alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur; or R is a phthalimido group of formula (II) below

any R_1 , if present, is in position 5 or 6 of the indazole 15 ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1;

or a pharmaceutically acceptable salt thereof; with the provisos that:

- a) when R is -NHCOR' and m is 0, then R' is other than methyl, n-propyl, benzyl, 2,2-diphenylethyl, 3,5-dimethyl-isoxazol-4-yl, 2-(morpholin-4-yl)ethyl, or phenyl optionally substituted by chloro, hydroxy, methyl, nitro or amino;
- b) when the indazole is substituted in position 5 or 6 by a methoxy group then R is other than 3-(N,N-diethylamino)propylamino, 3-[(3-methyl)morpholin-4-yl]propylamino or 1-hydroxy-2-methyl-2-propylamino;

- c) the compound 3-phthalimido-indazole being excluded.
- 10. A compound of formula (I) according to claim 9 wherein R is a group -NHR' or -NR'R" and R', R", R_1 and m are as defined in claim 9.
- 11. A compound of formula (I) according to claim 10 wherein m is 1 and R_1 , R' and R'' are selected, each independently, from C_2 - C_6 alkenyl, C_3 - C_6 alkynyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur.
- 12. A compound of formula (I) according to claim 9 wherein R is a group -NHCOR' and R', R_1 and m are as defined in claim 9.
- 13. A compound of formula (I) according to claim 12 wherein m is 1 and R_1 and R' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.
- 25 **14.** A compound of formula (I) according to claim 9 wherein R is a group -NHCONHR' or -NHCONR'R", and R', R", R_1 and m are as defined in claim 9.
- 15. A compound of formula (I) according to claim 14 wherein m is 1 and R_1 , R' and R'' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen and sulfur.

- 16. A compound of formula (I) according to claim 9 wherein R is a group $-NHSO_2R'$ and R', R_1 and m are as defined in claim 9.
- 5 17. A compound of formula (I) according to claim 16 wherein m is 1 and R_1 and R' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.
 - 18. A compound of formula (I) according to claim 9 wherein R is a group -NHCOOR' and R', R_1 and m are as defined in claim 9.
- 19. A compound of formula (I) according to claim 18 wherein m is 1 and R_1 and R' are selected, each independently, from C_1 - C_6 alkyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen, sulfur.

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- 20. A compound of formula (I) according to claim 9 wherein R is a phthalimido group of formula (II) and R_1 and m are as defined in claim 9.
 - 21. A compound of formula (I) according to claim 20 wherein m is 1 and R_1 is selected from C_2 - C_6 alkenyl, C_3 - C_6 alkynyl, aryl, aryl C_1 - C_6 alkyl, 5 or 7 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur.
- 22. A compound of formula (I) as defined in claim 9, optionally in the form of a pharmaceutically acceptable salt, selected from the group consisting of:

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1) methyl 2-({3-[(anilinocarbonyl)amino]-1H-indazol-5-
yl}oxy) butanoate;
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- 2) N-benzyl-N'-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-yl]urea;
- 5 3) methyl 2-[(3-{[(benzylamino)carbonyl]amino}-1Hindazol-5-yl)oxy]butanoate;
 - 4) N-isopropyl-N'-{5-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}urea;
 - 5) 2-[(3-{[(isopropylamino)carbonyl]amino}-1H-indazol-5-yl)oxy]-N-phenylpropanamide,
 - 6) methyl 2-[(3-{[(isopropylamino)carbonyl]amino}-1Hindazol-5-yl)oxy]butanoate;
 - 7) N-isopropyl-N'-{5-[2-(4-methyl-1,3-thiazol-5-yl)ethoxy]-1H-indazol-3-yl}urea;
- 8) N-[5-(but-3-ynyloxy)-1H-indazol-3-yl]-N'-isopropylurea;
 - 9) methyl 2-({3-[(3-phenylpropanoyl)amino]-1H-indazol-5yl}oxy) butanoate;
 - N-{5-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}cyclopropanecarboxamide;
 - 11) methyl 2-({3-[(cyclopropylcarbonyl)amino]-1Hindazol-5-yl}oxy)butanoate;
 - 12) 2-(4-tert-butylphenoxy)-N-[5-(2-pyrrolidin-1ylethoxy)-1H-indazol-3-yl]acetamide;
- 25 13) 2-(4-methoxyphenyl)-N-[5-(2-pyrrolidin-1-ylethoxy)-1H-indazol-3-yl]acetamide;
 - 14) methyl 2-[(3-{[(4-methoxyphenyl)acetyl]amino}-1Hindazol-5-yl)oxy]butanoate;
 - N-isopropyl-N'-{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}urea;
 - N-{6-[(2-methylbenzyl)oxy]-1H-indazol-3-yl}cyclopropanecarboxamide;
 - N-{6-[(2-oxo-1-phenylpyrrolidin-3-yl)oxy]-1H-indazol-3-yl}cyclopropanecarboxamide;
- 18) methyl 2-({3-[(cyclopropylcarbonyl)amino]-1Hindazol-6-yl}oxy)butanoate;

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- 19) methyl 2-({3-[(3-chlorobenzoyl)amino]-1H-indazol-6-yl}oxy)butanoate;
- 20) N-benzyl-N'-(5-hydroxy-2H-indazol-3-yl)urea;
- 21) N-(5-hydroxy-2H-indazol-3-yl)-N'-isopropylurea;
- 5 22) 2-(4-tert-butylphenoxy)-N-(5-hydroxy-2H-indazol-3-yl)acetamide;
 - N-(5-hydroxy-2H-indazol-3-yl)-2-(4-methoxyphenyl)acetamide;
 - N-(6-hydroxy-2H-indazol-3-yl)-N'-phenylurea;
- N-(6-hydroxy-2H-indazol-3-yl)-3phenylpropanamide;
 - 26) N-(6-hydroxy-2H-indazol-3-yl)cyclopropanecarboxamide.

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- 23. A process for preparing the compounds of formula (I) and the pharmaceutically acceptable salts thereof, as defined in claim 9, wherein R is as defined in claim 9 but other than a phthalimido group of formula (II), which process comprises:
- 20 a) reacting under acidic conditions a 2-aminobenzonitrile derivative of formula (III)

$$(R"O)_{m} \xrightarrow{CN} (III)$$

wherein m is as defined in claim 9 and, if present, R''' is a methyl or benzyl group; with sodium nitrite in the presence of stannous chloride, so as to obtain a compound of formula (IV)

b) reacting the compound of formula (IV) with phthalic anhydride so as to obtain a compound of formula (V)

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$$(R"O)_{m} \qquad N \qquad (V)$$

c) reacting the compound of formula (V) with a suitable ether cleaving agent so as to obtain the corresponding hydroxy derivative of formula (VI)

$$(HO)_{m} \xrightarrow{N} N \qquad (VI)$$

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d) reacting the compound of formula (VI) with a suitable silylating agent $(R^{iv})_3SiZ$ wherein each R^{iv} is, the same or different, a straight or branched C_1-C_4 alkyl group, and Z is a halogen atom, so as to obtain a compound of formula (VII)

$$[(R^{iv})_3SiO]_{\overline{M}}$$
 (VII)

e) reacting the compound of formula (VII) with a suitable indazole nitrogen protecting agent or, alternatively,

supporting it onto a suitable polymeric resin so as to obtain a compound of formula (VIII)

$$[(R^{iv})_3SiO]_{\overline{m}}$$
 (VIII)

wherein Q is the above protecting group or represents the supporting resin;

f) reacting the compound of formula (VIII) with hydrazine monohydrate so as to get the compound of formula (IX)

$$[(R^{iv})_3SiO]_{\overline{m}} \qquad \qquad NH_2 \qquad \qquad (IX)$$

and reacting the compound of formula (IX) according to any one of the following steps g.1) or g.2);

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g.1) with a suitable reagent of formula R'-Z (X), R'-COZ (XI), R'-NCO (XII), R'-SO₂Z (XIII) or R'OCOZ (XIV), wherein R' is as defined in claim 9 and Z represents a halogen atom or a suitable leaving group, so as to get the corresponding compound of formula (XV)

$$[(R^{iv})_3SiO]_{\overline{m}} \qquad (XV)$$

wherein R is a group -NHR', -NHCOR', -NHCONHR', -NHSO $_2$ R' or -NHCOOR' and, if desired, reacting the compounds having R as a -NHR' or -NHCONHR' group with a compound of formula

R"Z (XVI)

wherein R" is as defined in claim 9 and Z is as above defined, so as to get the compounds of formula (XV) wherein R is a group -NR'R" or -NHCONR'R";

5 g.2) with a compound of formula (XVII)

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R'R"NH (XVII)

wherein R' and R" are as above defined, in the presence of 4-nitrophenyl chloroformate, so as to obtain the corresponding compound of formula (XV) wherein R is a group -NHCONR'R";

h) reacting any of the above compounds of formula (XV) with tetrabutylammonium fluoride so as to get the compound of formula (XVIII)

15 i) reacting the compound of formula (XVIII) with a derivative of formula

$$R_1-Z$$
 (XIX)

wherein R_1 is as defined in claim 9 and Z is a halogen atom, a suitable leaving group or hydroxy, so as to obtain the compound of formula (XX)

$$(R_1O)_{\overline{m}}$$
 N
 (XX)

j) deprotecting the compound of formula (XX) or, alternatively, cleaving the polymeric resin so as to get the desired compound of formula (I) and, whenever desired, converting it into another compound of formula (I) and/or into a pharmaceutically acceptable salt thereof.

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24. The process of claim 23 wherein the compound of formula (III) is 2-amino-4-methoxy-benzonitrile or 2-amino-5-benzyloxy-benzonitrile.

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- 5 **25.** The process of claim 23 wherein step a) is carried out in the presence of hydrochloric acid.
 - 26. The process of claim 23 wherein, in step d), the silylating agent is tert-butyl-dimethyl-silyl chloride.
- 27. The process of claim 23 wherein, in step e), the indazole derivative of formula (VII) is supported onto a chloro-trityl chloride polymeric resin.
- 28. A process for preparing the compounds of formula (I) as defined in claim 9 and wherein R is a phthalimido group of formula (II), and the pharmaceutically acceptable salts thereof, which process comprises reacting the compounds of formula (VIII), as defined in claim 23, according to steps 20 h), i) and j) of the process of claim 23.
 - 29. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the above process of claim 23, by first reacting the compound of formula (IXa)

$$(tBu)(Me)_2Si \xrightarrow{O} NN_Q (IXa)$$

with each one of the compounds of formula (X), as set forth in table I, so as to obtain a plurality of compounds of formula (XVa)

by then reacting each of the derivatives of formula (XVa) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

30. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXb)

$$(tBu)(Me)_2Si O N (IXb)$$

with each one of the compounds of formula (X), as set forth

15 in table I, so as to obtain a plurality of compounds of
formula (XVa)

by then reacting each of the derivatives of formula (XVb) with tetrabutylammonium fluoride, as per step h) of the 20 process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

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31. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXa)

with each one of the compounds of formula (XI), as set forth in table IV, so as to obtain a plurality of compounds of formula (XVc)

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by then reacting each of the derivatives of formula (XVc) with tetrabutylammonium fluoride, as per step h) of the process, and then each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

32. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXb)

$$(tBu)(Me)_2Si O N Q (IXb)$$

with each one of the compounds of formula (XI), as set forth in table IV, so as to obtain a plurality of compounds of formula (XVd)

by then reacting each of the derivatives of formula (XVd) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process

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33. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXa)

with each one of the compounds of formula (XII), as set forth in table V, so as to obtain a plurality of compounds of formula (XVe)

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by then reacting each of the derivatives of formula (XVe) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of

formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

34. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXb)

$$(tBu)(Me)_{2}Si \longrightarrow N$$

$$Q$$

$$(IXb)$$

10 with each one of the compounds of formula (XII), as set forth in table V, so as to obtain a plurality of compounds of formula (XVf)

by then reacting each of the derivatives of formula (XVf)

15 with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

20 **35.** A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXa)

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$$(tBu)(Me)_2Si$$

O

N

N

Q

(IXa)

with each one of the compounds of formula (XIII), as set forth in table VI, so as to obtain a plurality of compounds of formula (XVg)

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by then reacting each of the derivatives of formula (XVg) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

36. A compound of formula (I) as defined in claim 9, and the pharmaceutically acceptable salts thereof, which are obtainable, for instance through a combinatorial chemistry technique as per the process of claim 23, by first reacting the compound of formula (IXb)

with each one of the compounds of formula (XIII), as set forth in table VI, so as to obtain a plurality of compounds of formula (XVh)

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$$(tBu)(Me)_2Si \underset{Q}{\bigvee} NHSO_2R'$$

by then reacting each of the derivatives of formula (XVh) with tetrabutylammonium fluoride, as per step h) of the process, and then with each one of the derivatives of formula (XIX), as set forth in tables II or III, and by subsequently operating as per step j) of the process.

37. A library of two or more aminoindazole derivatives represented by formula (I)

$$(R_1O)_{\overline{m}}$$
 N
 N
 (I)

wherein

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R is selected from the group consisting of -NHR', -NR'R", -NHCOR', -NHCONR', -NHCONR'R", -NHSO₂R' or -NHCOOR', wherein R' and R" are, each independently, a group optionally further substituted selected from straight or branched C_1 - C_6 alkyl, C_2 - C_6 alkenyl or alkynyl, C_3 - C_6 cycloalkyl or cycloalkyl C_1 - C_6 alkyl, aryl, aryl C_1 - C_6 alkyl, 5 or 6 membered heterocyclyl or heterocyclyl C_1 - C_6 alkyl with from 1 to 3 heteroatoms selected among nitrogen, oxygen or sulfur; or R is a phthalimido group of formula (II) below

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any R_1 , if present, is in position 5 or 6 of the indazole ring and represents a group, optionally further substituted, as set forth above for R' or R"; m is 0 or 1;

- 5 or a pharmaceutically acceptable salt thereof.
 - 38. A specific compound of formula (I), optionally in the form of a pharmaceutically acceptable salt, as defined in any one of tables from IX to XVI.

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39. A pharmaceutical composition comprising an effective amount of an aminoindazole of formula (I) as defined in claim 9 and, at least, one pharmaceutically acceptable excipient, carrier or diluent.

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40. A pharmaceutical composition according to claim 39 further comprising one or more chemotherapeutic agents, as a combined preparation for simultaneous, separate or sequential use in anticancer therapy.

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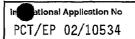
- 41. A product or kit comprising a compound of claim 9 or a pharmaceutical composition thereof as defined in claim 39, and one or more chemotherapeutic agents, as a combined preparation for simultaneous, separate or sequential use in anticancer therapy.
- **42.** A compound of formula (I) or a pharmaceutically acceptable salt thereof, as defined in claim 9, for use as a medicament.

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43. Use of a compound of formula (I) or a pharmaceutically acceptable salt thereof, as defined in claim 9, in the manufacture of a medicament for treating diseases caused by and/or associated with an altered protein kinase activity.

44. Use according to claim 43 for treating tumors.

INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/416 C07D C07D231/56 C07D403/04 A61P35/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC & 7 & C07D & A61K & A61P \end{array}$ Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,X WO 02 062789 A (MILLER ANDREW ; KNEGTEL 1 - 44RONALD (GB); BEBBINGTON DAVID (GB); CHARRIE) 15 August 2002 (2002-08-15) cited in the application page 1, line 1-10 claims 2,3 examples 79,168,169,283 WO 01 53268 A (AGOURON PHARMA) 1 - 44Α 26 July 2001 (2001-07-26) claims Ε EP 1 256 574 A (KIRIN BREWERY) 1 - 4413 November 2002 (2002-11-13) claims 6,32 & WO 01 56988 A (KIRIN BREWERY) 1-44 A 9 August 2001 (2001-08-09) -/--Y Further documents are listed in the continuation of box C. X I Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 11 December 2002 07/01/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016 Kollmannsberger, M

INTERNATIONAL SEARCH REPORT

Ir ational Application No
PCT/EP 02/10534

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X	DATABASE CROSSFIRE BEILSTEIN 'Online!	9-22,
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X	KWARTLER, C.; LUCAS, P: "The preparation of Sulfanilamidoindazoles" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 65, no. 10, 1943, pages 1804-1806, XP002224525 tables 1,2	9-22, 29-36, 38-40,42
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X	US 4 086 353 A (NEUMANN PETER) 25 April 1978 (1978-04-25) claim 1 examples 4,47	9-22, 29-36, 38-40,42
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	claim 1 page 8; example 17	30 40
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Form PCT/ISA/210 (continuation of second sheet) (July 1992)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 9-22, 38-40 (all partly)

Claims 9-22, 38-40 encompass a large number of known compounds. The initial phase of the search thus revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of these claims is impossible. Consequently, the search has been restricted to compounds which in the prior art are said to have kinase inhibiting properties and/or are said to be useful against the cell proliferative disorders listed in claim 2. Only a few documents relating to compounds as such have been cited for illustration.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

ternational application No. PCT/EP 02/10534

INTERNATIONAL SEARCH REPORT

Box I Observations where cert	ain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has n	ot been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject	t matter not required to be searched by this Authority, namely:
	-8 are directed to a method of treatment of the human/animal has been carried out and based on the alleged effects of the ion.
2. X Claims Nos.: 9– because they relate to parts of an extent that no meaningful	22, 38-40 (all partly) of the International Application that do not comply with the prescribed requirements to such international Search can be carried out, specifically:
see FURTHER INFOR	MATION sheet PCT/ISA/210
3. Claims Nos.:	claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unit	ty of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority	found multiple inventions in this international application, as follows:
As all required additional sear searchable claims.	rch fees were timely paid by the applicant, this International Search Report covers all
2. As all searchable claims could of any additional fee.	d be searched without effort justifying an additional fee, this Authority did not invite payment
	additional search fees were timely pald by the applicant, this international Search Report which fees were paid, specifically claims Nos.:
4. No required additional search	fees were timely paid by the applicant. Consequently, this International Search Report is mentioned in the claims; it is covered by claims Nos.:
lestined to the invention man	mentioned in the claims, it is covered by claims twos
Remark on Protest	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

In ational Application No
PCT/EP 02/10534

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INTERNATIONAL SEARCH REPORT

Information on patent family members

In atlonal Application No
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