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(54) Title: MORPHOLINO IMAGING AND THERAPY

(57) Abstract: The present invention provides a kit and a method for targeting for a diagnostic or therapeutic agent to a target site in a mammal having a pathological condition. The kit comprises, in separate containers, (a) a first conjugate comprising a targeting moiety and a Morpholino oligomer, wherein the targeting moiety selectively binds to a primary, target-specific binding site of the target site or to a substance produced by or associated with the target site; (b) optionally, a clearing agent; and (c) a second conjugate comprising a complementary Morpholino oligomer and a diagnostic agent or therapeutic agent. The method comprises administering (a), optionally (b), and (c) to a mammal.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/09749

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 51/00, 31/535, 39/395, 45/00
 US CL : 424/1.65, 1.69, 178.1, 280.1; 514/231.8

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 424/1.65, 1.69, 178.1, 280.1; 514/231.8

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,645,985 A (FROEHLER et al) 08 July 1997 (08.07.1997), see abstract, Figure 1, column 7, lines 25-37, column 10, lines 37-58, columns 11-16 and columns 32-34.	1, 2, 5-11 and 40-43 ----- 1-43
X --- Y	US 5,698,685 A (SUMMERTON et al) 16 December 1997 (16.12.1997), see columns 4-5.	1-3 and 40-43 ----- 1-43
Y	US 5,958,408 A (GRIFFITHS et al) 28 September 1999 (28.09.1999), see column 2, lines 32-42, column 4, lines 42-51 and column 8.	3, 4 and 12-40

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"I" 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 invention
"E" earlier application or patent published on or after the international filing date	"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)	"Y" 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 other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

APS

search terms: morpholino oligomer, MORF, morpholino polymers, MRI, radiodiagnostics, complementary, radiotherapy, targeting agents, kits.