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(54) Title: POLYCYCLIC SUGAR SURROGATE-CONTAINING OLIGOMERIC COMPOUNDS AND COMPOSITIONS FOR USE IN GENE MODULATION

(57) Abstract: Compositions comprising first and second oligomers are provided wherein at least a portion of the first oligomer is capable of hybridizing with at least a portion of the second oligomer; at least a portion of the first oligomer is complementary to and capable of hybridizing to a selected target nucleic acid, and at least one of the first or second oligomers includes a modification comprising a polycyclic sugar surrogate. Oligomer/protein compositions are also provided comprising an oligomer complementary to and capable of hybridizing to a selected target nucleic acid and at least one protein comprising at least a portion of an RNA-induced silencing complex (RISC), wherein at least one nucleoside of the oligomer has a polycyclic sugar surrogate modification.



WO 2004/041889 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : CO7H 21/04; A61K 48/00; C12Q 1/68 US CL : 536/23.1,24.5; 514/44; 435/6 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. : 536/23.1,24.5; 514/44; 435/6 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)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, Y	US 20040018999 A1 (BEACH et al.) 29 January 2004 (29.01.2004), see entire document	2, 4-6, 9, 41-61, 85-93
X --- Y	US 6,436,640(SIMMONS et al.) 20 August 2002 (20.08.2002), see entire document, particularly columns 16-31.	1, 3, 7, 8, 10-12, 24-27, 41, 42, 46, 47, 49, 50, 62-65, 79-81 ----- 2, 4-6, 9, 43-45, 85-93
X	RAJWANSHI et al. LNA Stereoisomers: xylo-LNA (beta-D-xylo configured locked nucleic acid) and alpha-L-LNA (alpha-L-ribo configured locked nucleic acid). Chem. Commun. 1999, 1395-1396,	1, 3-8, 10-12, 28, 29, 31, 32, 50, 66, 67, 69, 70
X --- Y	US 2002/0068708 (WENGEL et al.) 6 June 2002 (06.06.2002), see entire document, particularly figures 1&3 and pages 6-19.	1, 3, 7, 8, 9-23, 34-39 ----- 41-61
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	STEFFENS et al. Synthesis and Thermodynamic and Biophysical Properties of Tricyclo-DNA	1, 3, 4, 7-11, 40 ----- 41-43, 46-49, 78