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HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
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PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,

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(54) Title: ISOTOPOLOGUES OF SMAD7 ANTISENSE OLIGONUCLEOTIDES

(57) Abstract: This disclosure relates generally to deuterated isotopologues of SMAD7 antisense oligonucleotides, pharmaceutical compositions containing the same, and methods of using the same.



INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2014/065421

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12N15/113 A61K31/712
ADD.

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)

C12N

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GIOVANNI MONTELEONE: "Role of Smad7 in inflammatory bowel diseases", WORLD JOURNAL OF GASTROENTEROLOGY, vol. 18, no. 40, 28 October 2012 (2012-10-28), page 5664, XP055197821, ISSN: 1007-9327, DOI: 10.3748/wjg.v18.i40.5664 the whole document	1-93
Y	WO 2014/022566 A2 (ASED LLC [US]) 6 February 2014 (2014-02-06) page 1; claims 1-25 ----- -/-	1-93



Further documents are listed in the continuation of Box C.



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"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

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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.
A	MONTELEONE G ET AL: "Phase i clinical trial of smad7 knockdown using antisense oligonucleotide in patients with active crohn's disease", MOLECULAR THERAPY, NATURE PUBLISHING GROUP, GB, vol. 20, no. 4, 17 January 2012 (2012-01-17), pages 870-876, XP008158192, ISSN: 1525-0016, DOI: 10.1038/MT.2011.290 the whole document -----	1,88-93

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2014022566 A2	06-02-2014	AU 2013296508 A1	19-02-2015
		CA 2880496 A1	06-02-2014
		EP 2882769 A2	17-06-2015
		US 2014039175 A1	06-02-2014
		US 2015119565 A1	30-04-2015
		WO 2014022566 A2	06-02-2014
