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(54) Title: COMPOSITIONS AND METHODS FOR THE TREATMENT OF HYPERGLYCEMIA

(57) Abstract: The invention relates to the compounds of formula (I) or its pharmaceutical acceptable salts, as well as polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof The pharmaceutical compositions comprising an effective amount of compounds of formula (I), and methods for the treatment of hyperglycemia may be formulated for oral, buccal, rectal, topical, transdermal, transmucosal, intravenous, parenteral administration, syrup, or injection. Such compositions may be used to treatment of insulin resistance, diabetes mellitus, diabetes insipidus, type 1 diabetes, type 2 diabetes, microvascular complications, macrovascular complications, lipid disorders, prediabetes, obesity, arrhythmia, myocardial infarction, stroke, neuropathy, renal complications, hypertriglyceridemia, cardiovascular complications, and post prandial hyperglycemia.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2013/050903

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

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)

IPC: C07D , C07H, A61K , A61P

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)

CA, WPI, EPOQUE, Google Scholar, CNTXT, SIPOABS : STN structure search, miglitol, conjugate, conjugates, lipoic acid, eicosapentaenoic acid, docosahexaenoic acid, salsalate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5643874 A (HOFFMANN-LA ROCHE INC.), 01 July 1997 (01.07.1997), see claims 4-5 and 10	1-4
A	EP 1903034 A1 (TECHNISCHE UNIVERSITAT GRAZ), 26 March 2008 (26.03.2008), see claim 1, Fig. 2-8, 10-22	1-9
A	WO 2004/007524 A2 (BOEHRINGER INGELHEIM PHARMA GMBH & CO. KG), 22 January 2004 (22.01.2004), see claims 1and 15	1-9

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

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"&"document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
01 July 2013 (01.07.2013)	**18 Jul. 2013 (18.07.2013)**
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer WANG Jingjing Telephone No. (86-10)62411133

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
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EP 1903034 A1	26.03.2008	none	

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
WO 2004/007524 A2	22.01.2004	US 2004072736 A1	15.04.2004
		AU 2003260306 A1	02.02.2004
		US 7101848 B2	05.09.2006

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C07D 211/00 (2006.01)i

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