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(81) Designated States (unless otherwise indicated, for every
 kind of national protection available): AE, AG, AL, AM,
 AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
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EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
 HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
 KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
 NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,
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 TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
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 MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

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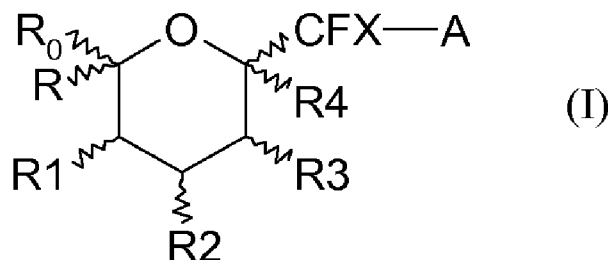
— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the
 claims and to be republished in the event of receipt of
 amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

11 November 2010

(54) Title: C-ARYL GLYCOSIDE COMPOUNDS FOR THE TREATMENT OF DIABETES AND OBESITY



(57) Abstract: This invention relates to a compound of generic formula (I): (I) as well as a pharmaceutically acceptable salt thereof, a tautomer, optical isomer or a mixture of optical isomers in any proportion, in particular a mixture of enantiomers, and particularly a racemate mixture, in particular for use thereof as a drug, notably in the treatment of diabetes.

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/053970

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07H7/04 C07H7/06 C07H15/18 A61K31/7034 C07D309/10

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)

C07H A61K C07D

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2004/014928 A (INST NAT SCIENCES APPLIQ [FR]; QUIRION JEAN-CHARLES [FR]; PANNECOUCKE) 19 February 2004 (2004-02-19) cited in the application the whole document	1-10, 12-14
Y	WO 01/74834 A (SQUIBB BRISTOL MYERS CO [US]; WASHBURN WILLIAM N [US]; SHER PHILIP M []) 11 October 2001 (2001-10-11) the whole document	1-10, 12-14
Y	WO 01/27128 A (SQUIBB BRISTOL MYERS CO [US]; ELLSWORTH BRUCE [US]; WASHBURN WILLIAM N) 19 April 2001 (2001-04-19) the whole document	1-10, 12-14
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☒ 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

"E" earlier document but published on or after the international filing date

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

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

"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 invention

"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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Date of the actual completion of the international search

10 June 2010

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22/09/2010

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/053970

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>TONY KURISSERY A ET AL: "Synthesis of .beta.-C-galacto-Pyranosides with Fluorine on the Pseudoanomeric Substituent" ORGANIC LETTERS, ACS, WASHINGTON, DC, vol. 9, no. 8, 1 January 2007 (2007-01-01), pages 1441-1444, XP002464204 ISSN: 1523-7060 cited in the application the whole document</p> <p>-----</p>	1-10, 12-14
Y	<p>WO 2007/128899 A (INST NAT SCIENCES APPLIQ [FR]; CASTELOT-DELIENCOURT-GODEFROY [FR]; QUI) 15 November 2007 (2007-11-15) cited in the application the whole document</p> <p>-----</p>	1-10, 12-14
A	<p>WO 2005/044256 A (MERCK & CO INC [US]; SINGS HEATHER I [US]; UJJAINWALLA FEROZE [US]; MA) 19 May 2005 (2005-05-19)</p> <p>-----</p>	1-10, 12-14
X,P	<p>KOLYMPADI, MARIA ET AL: "Synthesis and conformational analysis of (.alpha.-D-galactosyl)-phenylmethane and .alpha.-, .beta.-difluoromethane analogs: interactions with the plant lectin viscumin" CHEMISTRY--A EUROPEAN JOURNAL , 15(12), 2861-2873 CODEN: CEUJED; ISSN: 0947-6539, 2009, XP002584391 scheme 1, step i.</p> <p>-----</p>	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2009/053970

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for 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 restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-10, 12-14

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10, 12-14

Compounds and processes of claims 1-10,12-14

2. claims: 11, 15-17

Compounds and processes of claims 11,15-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2009/053970

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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