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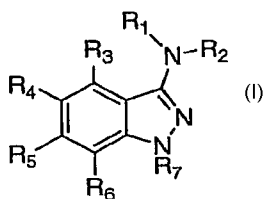
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60/752,750 20 December 2005 (20.12.2005) US
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, 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, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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- (88) **Date of publication of the international search report:**
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) **Title:** GLUCOKINASE ACTIVATORS



(57) **Abstract:** Compounds, pharmaceutical compositions, kits and methods are provided for use with glucokinase that comprise a compound selected from the group consisting of wherein the variables are as defined herein.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/048714

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D231/56 C07D417/12 A61K31/427 A61P3/10 C07C233/64

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)

C07D C07C 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 practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI 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.
A	EP 1 532 980 A (NOVO NORDISK AS [DK]) 25 May 2005 (2005-05-25) paragraph [0020] - paragraph [0023]	1-13, 16, 19, 20, 25-95
A	WO 03/000262 A (ASTRAZENECA AB [SE]; ASTRAZENECA UK LTD [GB]; HAYTER BARRY RAYMOND [GB]) 3 January 2003 (2003-01-03) page 2, line 25 - page 4, line 7 ----- -/--	1-13, 16, 19, 20, 25-95

 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
- *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.
- * & * document member of the same patent family

Date of the actual completion of the international search

30 May 2007

Date of mailing of the international search report

06/08/2007

Name and mailing address of the ISA/

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Uselli, Ambrogio

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/048714

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 086 353 A (NEUMANN PETER) 25 April 1978 (1978-04-25) column 5, line 15 - column 6, line 6; examples 4,47	1-6, 13, 25-34, 38, 39, 44, 45, 50, 51, 55, 56, 70, 75-81, 88
X	WO 02/22602 A (VERTEX PHARMA [US]; BEBBINGTON DAVID [GB]; KNEGTEL RONALD [GB]; BINCH) 21 March 2002 (2002-03-21) table 4	1
X	WO 2004/062662 A (AVENTIS PHARMA SA [FR]) 29 July 2004 (2004-07-29) page 47, line 17 - page 47, line 18 page 11, line 16 - page 12, line 2	1, 19
X	WO 2004/022544 A1 (AVENTIS PHARMA SA [FR]) 18 March 2004 (2004-03-18) page 11, line 21; compounds A3, A4, A5	1, 19
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INTERNATIONAL SEARCH REPORT

International application No
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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	DAIDONE G ET AL: "Synthesis and antiproliferative activity of triazenoindazoles and triazenopyrazoles: a comparative study" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 39, no. 3, March 2004 (2004-03), pages 219-224, XP004499756 ISSN: 0223-5234 compound 4	16
X	----- DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; XP002435416 Database accession no. BRN:958259 abstract & KOREN B ET AL: J.HETEROCYCLIC CHEM., vol. 14, 1977, pages 621-625, -----	19

INTERNATIONAL SEARCH REPORT

International application No.
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Box 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:
Although claims 88-95 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
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 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 fee, this Authority did not invite payment of any additional fee.
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.:

see annex

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- 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:

1-13,16,19,20,25,26(part)-70(part),71,
72,73(part)-75(part),76-95

Indazole derivatives

2. claims: 14,15,17,18, 21-24,26(part)-70(part), 73(part)-75(part)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No
PCT/US2006/048714

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