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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *of inventorship (Rule 4.17(iv))*

Published:

— *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))*

[Continued on next page]

(54) Title: A PROCESS FOR THE PREPARATION OF R-SIT AGLIPTIN AND ITS PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF

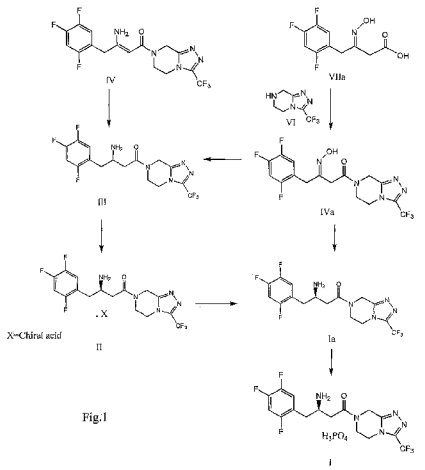


Fig.1

(57) Abstract: The present invention provides processes for the preparation of R-sitagliptin and its pharmaceutically acceptable salts thereof.

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29 October 2009

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN 2008/000707

A. CLASSIFICATION OF SUBJECT MATTER
IPC[8]: ***C07D 471/04*** (2006.01); ***C07D 487/04*** (2006.01)
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[8]: 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 practicable, search terms used)
Wpi, Epodoc, Registry, CA, Pubchem

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO2004/087650 A2 (MERCK & CO INC et al.) 14 October 2004 (14.10.2004) **Examples, Claims, page 1 line 25** ---	1-5,16-20
X	WO2005/003135 A1 (MERCK & CO INC et al.) 13 January 2005 (13.01.2005) **Examples, Claims, Scheme 2, page 14** ----	6-9,16,18-20

☐ 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 application or patent 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	Date of mailing of the international search report
10 July 2009 (10.07.2009)	4 September 2009 (04.09.2009)
Name and mailing address of the ISA/ AT **Austrian Patent Office** Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535	Authorized officer GÖRNER W. Telephone No. +43 / 1 / 534 24 / 558

Continuation of first sheet

Continuation 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:

Group I: Claims 1-5, 16(partially), 17, 18(partially). preparation of R-sitagliptin by treating racemic sitagliptin with chiral-acid and recrystallization.
Group II: Claims 6-9. Process for preparation of racemic sitagliptin by reduction of precursor according to formula IV
Group III: Claim 10. Process for preparation of racemic sitagliptin by reduction of precursor according to formula IVa
Group IV: Claims 11-12, 15, 16(partially). Process for preparation of racemic sitagliptin by reduction of precursor according to formula IVa with chiral-reducing agent.
Group V: Claims 13,14. Process for preparation of compound of formula IVa by condensation of compounds of formulas VIIa and VI.
Group VI: Claim 18,19. R-sitagliptin.

Since R-sitagliptin is known from the state of the art (e.g. D1, D2), the claim-groups I-VI do not have a single novel and essential technical feature in common and therefore lack unity.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/IN 2008/000707

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO A 2004087650		WO A2 2004087650	2004-10-14
WO A 2005003135		HK A1 1095144	2009-08-07
		PT E 1654263E	2007-11-16
		ZA A 200509933	2006-12-27
		EC A SP056245	2006-10-17
		NZ A 544026	2008-08-29
		DE T2 602004008938T	2008-08-07