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(54) Title: METHOD OF TREATING OR PREVENTING PATHOLOGIC EFFECTS OF ACUTE INCREASES IN HYPERGLYCEMIA AND/OR FREE FATTY ACID FLUX

(57) Abstract: One aspect of the present invention relates to a method of treating or preventing pathologic effects of hyperglycemia and/or increased fatty acid flux in a subject in need of such treatment or preventive therapy. This method involves administering a composition containing a therapeutically effective amount of a ROS inhibitor to a subject in need thereof.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/46446

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - C07D 249/08; A01N 43/64 (2007.01) USPC - 548/262.2, 514/359 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) USPC: 548/262.2, 514/359 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 548/262.2, 100, 514/359, 183, 1 (text search) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(PGPB,USPT,USOC,EPAB,JPAB); Google; PubMed Search terms: diabetes, hyperglycemia, iron, chelator, deferoxamine, thiazole		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 2005/0215468 A1 (BAR-OR, D. ET AL.) 29 September 2005 (29.09.2005) abstract; para [0006], [0097], [0101], [0105]-[0106], [0119]-[0120], [0147], [0181].	1-8 and 13-15 ---
Y		9-12 and 16-19
X ---	MEIJLER, M.M. ET AL. "Synthesis and Evaluation of Iron Chelators with Masked Hydrophilic Moieties." J. Am. Chem. Soc. 30 October 2002 (30.10.2002), Vol. 124, No. 43, pages 12666-12667; Figs. 1-3; pg 12666, para 3; pg 12667, para 3.	21 and 23 ---
Y		9-12
Y	US 2003/0069273 A1 (LATTMANN, R. ET AL.) 10 April 2003 (10.04.2003) abstract; para [0085]-[0132].	16-19
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* 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 17 September 2007 (17.09.2007)		Date of mailing of the international search report 18 OCT 2007
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/46446

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.: 20 and 22
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:

 Claims 20 and 22 lack clarity because it is unclear what the intended meaning of "R", "L", "C", and "M" in the formula "R-L-C-M" is. Because "R", "L", "C", and "M" are arbitrary and not art-recognized abbreviations, the claims are so unclear that no meaningful search can be conducted. Accordingly, claims 20 and 22 have not been searched.

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:

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 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.:

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.