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(54) Title: LIPID-AMINO ACID CONJUGATES AND METHODS OF USE

LIST OF FATTY ACIDS (carbon number:double bond number)

MAMMALIAN FATTY ACIDS

Myristic acid, 14:0
Palmitic acid, 16:0
Stearic acid, 18:0
Oleic acid, 18:1
Linoleic acid, 18:2
Linolenic acid, 18:3
Eicosatrienoic acid, 20:3
Arachidonic acid, 20:4
Eicosapentenoic acid, 20:5
Docosatetraenoic acid, 22:4

NON-MAMMALIAN FATTY ACIDS

Pentadecanoic acid, 15:0
Heptadecanoic acid, 17:0
Nonadecanoic acid, 19:0
Heneicosanoic acid, 21:0
9-Trans-tetradecanoic acid, 14:1T
10-Trans-pentadecanoic acid, 15:1T
9-Trans-hexadecenoic acid, 16:1T
10-Heptadecenoic acid, 17:1
10-Trans-heptadecenoic acid, 17:1T
7-Trans-nonadecenoic acid, 19:1T
10,13-Nonadecadienoic acid, 19:2
11-Trans-eicosenoic acid, 20:1T
12-Heneicosenoic acid, 21:1

(57) Abstract: N-fatty acid-amino acid conjugates and J₂ prostanoid-amino acid conjugates are disclosed along with methods for making such conjugates and methods of using these conjugates in the treatment of conditions that involved dysfunctional lipid metabolism, insulin sensitivity, glucose homeostasis, and/or inflammation.

WO 2006/010153 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/25246

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61K 31/19(2006.01);C07C 62/00(2006.01)**

 USPC: **514/557;562/508**
 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)
 U.S. : 514/557; 562/508

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

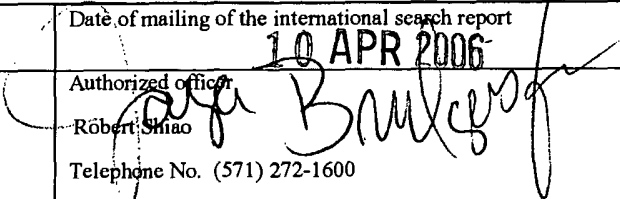
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,262,119 B1 (FERRANTE et al) 17 July 2001(17.07.2001).	1-26

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

* Special categories of cited documents:	Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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