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(54) Title: USE OF ALPHA-GLUCOSIDASE INHIBITORS TO TREAT ALPHAVIRUS INFECTIONS

(57) Abstract: The present invention provides methods for treating a flavivirus infection, including hepatitis C virus (HCV) infection, in an individual suffering from a flavivirus infection. In some embodiments, the methods involve administering to an individual in need thereof an effective amount of an agent that inhibits enzymatic activity of a membrane-bound α -glucosidase inhibitor. In other embodiments, the methods involve administering to an individual in need thereof effective amounts of an α -glucosidase inhibitor and at least one additional therapeutic agent.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/08242

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A01N 43/40; A61K 31/445**
 C07D 211/36(2006.01),211/40(2006.01),211/54(2006.01)

USPC: 514/315,317,326,327,330: 546/242,248
 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. : 514/315, 317, 326, 327, 330: 546/242, 248

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)

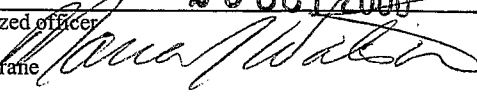
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US2004/0110795 A1 (ZITZMANN et al.) 10 June 2004, see especially abstract and claims.	1-3, 6 and 20
A	CHITTURI et al. Hepatotoxicity of Commonly Used Drugs: Nonsteroidal Anti-inflammatory Drugs, Anti-hypertensives, Anticonvulsants, Lipid-Lowering Agents, Psychotropic Drugs. Semin. Liver Dis. 2002, Vol. 22, No. 2, pages 169-183, only abstract supplied, see abstract.	1, 2, 4 and 6-20
X	ANDERSSON et al. Inhibition of Glycogen Breakdown by Iminosugars in vitro and in vivo. Biochemical Pharmacology. 15 February 2004, vol. 67, No. 4, pages 697-705, see especially the abstract.	1-3, 6 and 20
X	BLOCK, T. Virological Basis of the Broad Antiviral Activity of the Iminosugar Families Called "Glucovirs" and Alkovirs." Abstracts of Papers, 230th ACS National Meeting, American Chemical Society, Washington, DC, August 28-September 1, 2005, Abstract No. CARB-041, see especially the Abstract.	1-3, 6 and 20

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

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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