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(54) Title: GLYCOPEGYLATED INTERFERON ALPHA

(57) Abstract: The present invention provides IFN- α conjugates including IFN- α peptides and modifying groups such as PEG moieties. The IFN- α peptide and modifying group are linked via an intact glycosyl linking group interposed between and covalently attached to the IFN- α peptide and the modifying group. The IFN- α conjugates are formed from glycosylated peptides by the action of a glycosyltransferase. The glycosyltransferase ligates a modified sugar onto an amino acid or a glycosyl residue on the IFN- α peptide. Also provided are methods for preparing the IFN- α conjugates, methods for treating various disease conditions with the IFN- α conjugates, and pharmaceutical formulations including the IFN- α conjugates.



WO 2006/031811 A3

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61K 38/21(2006.01)**

 USPC: 424/85.7
 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. : 424/85.7

 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.
Y --- A	US 6,692,931 B1 (REUTTER et al) 17 February 2004 (17.02.2004), entire document	1-11, 13-17, 22-33, 35-42, 47-50 ----- 12, 18-21, 34, 43-46
Y --- A	US 2004/0136955 A1 (BARKER) 15 July 2004 (15.07.2004), entire document	1-11, 13-20, 22-33, 35-45, 47-50 ----- 12, 21, 34, 46

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

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"A" document defining the general state of the art which is not considered to be of particular relevance	"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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