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(54) Title: GLYCOSYLATED IL-7, PREPARATION AND USES

(57) Abstract: The present invention relates to new and improved interleukin-7 polypeptides, as well as compositions comprising the same, their preparation and uses. The invention more particularly relates to hyperglycosylated IL-7 polypeptides having improved properties, as well as their manufacture and therapeutic uses. The invention also discloses novel IL-7 polypeptides having modified amino acid sequences containing artificially created glycosylation site(s), as well as corresponding nucleic acid molecules, vectors and recombinant host cells. The invention also relates to the use of such polypeptides, cells or nucleic acids for curative or preventive treatment of mammalian subjects, including human subjects.



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INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

C07K A61K

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 practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 391 513 A (CYTHERIS) 25 February 2004 (2004-02-25) Paragraphs 35-37	1-7, 10, 11, 14, 15
Y	US 5 153 310 A (MITCHELL ET AL) 6 October 1992 (1992-10-06) Claims, Column 2, lines 30-47; col. 4. line 36-41.	1-7, 10, 11, 14, 15
X	US 5 328 988 A (NAMEN ET AL) 12 July 1994 (1994-07-12) Column 13, lines 37-53 and claims	1-7, 12
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 Further documents are listed in the continuation of Box C. See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>GOODWIN RG ET AL: "Human interleukin 7: molecular cloning and *growth* factor activity on human and murine B-lineage cells"</p> <p>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, January 1989 (1989-01), XP002077974 ISSN: 0027-8424</p> <p>-----</p>	
A	<p>CEBO C ET AL: "Lectin activities of cytokines: functions and putative carbohydrate-recognition domains"</p> <p>BBA - GENERAL SUBJECTS, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 1572, no. 2-3, 19 September 2002 (2002-09-19), pages 422-434, XP004380531 ISSN: 0304-4165 Page 427, item 6. first paragraph.</p> <p>-----</p>	
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X	<p>DATABASE Geneseq [Online]</p> <p>4 November 2004 (2004-11-04), "Human DNA encoding a leader peptide."</p> <p>XP002366778 retrieved from EBI accession no. GSN:ADR05996 Database accession no. ADR05996 see sequence alignment</p> <p>-----</p>	20

INTERNATIONAL SEARCH REPORT

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