

Title (en)
NATIVELY GLYCOSYLATED MAMMALIAN BIOLOGICAL MOLECULES PRODUCED BY ELETROMAGNETICALLY STIMULATING LIVING MAMMALIAN CELLS

Title (de)
DURCH ELEKTROMAGNETISCH STIMULIERTE, LEBENDE SÄUGETIERZELLEN PRODUZIERTE NATIVE GLYKOSYLIERTE BIOLOGISCHE SÄUGETIERMOLEKÜLE

Title (fr)
MOLECULES BIOLOGIQUES MAMMALIENNES À GLYCOSYLATION NATURELLE PRODUITES PAR STIMULATION ÉLECTROMAGNÉTIQUE DE CELLULES MAMMALIENNES VIVANTES

Publication
EP 1991569 A4 20091223 (EN)

Application
EP 06748309 A 20060307

Priority
US 2006008071 W 20060307

Abstract (en)
[origin: WO2007102812A2] The disclosure describes a method for producing natively glycosylated mammalian biological molecules by electromagnetically stimulating mammalian cells using an electromagnetic field. The mammalian cells can be grown in a cell culture chamber, and preferably in a bioreactor that is exposed to a time varying electromagnetic force. The biological molecules can be isolated from the cells and used for therapeutic, research, or other purposes.

IPC 8 full level
C07K 14/435 (2006.01); **C07K 14/475** (2006.01); **C07K 14/52** (2006.01); **C12N 5/00** (2006.01); **C12Q 1/00** (2006.01)

CPC (source: EP)
A61K 38/1825 (2013.01); **A61K 38/1866** (2013.01); **A61K 38/193** (2013.01); **A61K 38/204** (2013.01); **A61K 38/2053** (2013.01); **A61K 41/0004** (2013.01); **A61K 41/10** (2020.01); **A61K 45/06** (2013.01)

Citation (search report)
• [XY] WO 8603520 A1 19860619 - GENETICS INST [US]
• [X] GB 2169312 A 19860709 - BEACONSFIELD TINA
• [A] US 2005009161 A1 20050113 - STREETER JACKSON [US]
• [X] HOGLUND M: "GLYCOSYLATED AND NON-GLYCOSYLATED RECOMBINANT HUMAN GRANULOCYTE COLONY-STIMULATING FACTOR (RHG-CSF) - WHAT IS THE DIFFERENCE?", MEDICAL ONCOLOGY, SCIENCE AND TECHNOLOGY LETTERS, NORTHWOOD, GB, vol. 15, no. 4, 1 December 1998 (1998-12-01), pages 229 - 233, XP009027777, ISSN: 1357-0560
• [X] KUBOTA N ET AL: "Structural characterization of natural and recombinant human granulocyte colony-stimulating factors.", JOURNAL OF BIOCHEMISTRY MAR 1990, vol. 107, no. 3, March 1990 (1990-03-01), pages 486 - 492, XP009125309, ISSN: 0021-924X
• [Y] LELKES P I ET AL: "GTSF-2: a new, versatile cell culture medium for diverse normal and transformed mammalian cells.", IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY. ANIMAL MAY 1997, vol. 33, no. 5, May 1997 (1997-05-01), pages 344 - 351, XP002553931, ISSN: 1071-2690
• [X] FISHER S J ET AL: "EFFECT OF A PULSED ELECTROMAGNETIC FIELD ON PLASMA MEMBRANE PROTEIN GLYCOSYLATION", JOURNAL OF BIOELECTRICITY, vol. 5, no. 2, 1986, pages 253 - 268, XP009125275, ISSN: 0730-823X
• See references of WO 2007102812A2

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2007102812 A2 20070913; WO 2007102812 A3 20071221; WO 2007102812 A9 20080221; CN 101213206 A 20080702;
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DOCDB simple family (application)
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