Title (en)

METHODS FOR INHIBITING PROLIFERATION OF ASTROCYTES AND ASTROCYTIC TUMOR CELLS AND FOR ENHANCING SURVIVAL OF NEURONS AND USES THEREOF

Title (de)

VERFAHREN ZUR HEMMUNG DER PROLIFERATION VON ASTROZYTEN UND ASTROZYTISCHER TUMORZELLEN SOWIE ZUR VERBESSERUNG DES ÜBERLEBENS VON NEURONEN UND VERWENDUNGEN DAVON

Title (fr)

PROCEDES SERVANT A INHIBER LA PROLIFERATION DES ASTROCYTES ET DES CELLULES TUMORALES ASTROCYTIQUES ET A AUGMENTER LA SURVIE DES NEURONES ET MISES EN APPLICATION

Publication

**EP 1578915 A4 20080213 (EN)**

Application

**EP 02802862 A 20021107**

Priority

- US 0235588 W 20021107
- US 34471201 P 20011107

Abstract (en)

[origin: WO03040333A2] The present invention provides methods for inhibiting proliferation of astrocytes and astrocytic tumor cells. The present invention further provides methods for treating a condition associated with a defect in astrocyte proliferation in a subject, and methods for treating a condition associated with astrocytic tumor cell proliferation in a subject. Additionally, the present invention discloses methods for enhancing survival of neurons. The present invention still further provides methods for treating neural degeneration in a subject. The present invention is also directed to pharmaceutical compositions, comprising NrS1 protein or nucleic acid and a pharmaceutically-acceptable carrier. Finally, the present invention provides a purified NrS1 protein, an agent that binds to the NrS1 protein, a kit comprising an agent that binds to the NrS1 protein, and a composition comprising the NrS1 protein and a carrier.

IPC 1-7

**A61K 31/7088**; A61K 38/02; A61K 39/00; C07H 21/04

IPC 8 full level

**A61K 38/00** (2006.01); **A61K 38/17** (2006.01); **A61K 38/45** (2006.01); **A61K 48/00** (2006.01); **A61P 21/00** (2006.01); **A61P 21/04** (2006.01); **A61P 25/00** (2006.01); **A61P 25/14** (2006.01); **A61P 25/28** (2006.01); **A61P 27/02** (2006.01); **A61P 31/18** (2006.01); **A61P 43/00** (2006.01); **C07K 14/47** (2006.01); **C07K 14/705** (2006.01); **C12N 15/09** (2006.01); **C12Q 1/02** (2006.01)

CPC (source: EP)

**A61K 38/177** (2013.01); **A61P 21/00** (2017.12); **A61P 21/04** (2017.12); **A61P 25/00** (2017.12); **A61P 25/14** (2017.12); **A61P 25/28** (2017.12); **A61P 27/02** (2017.12); **A61P 31/18** (2017.12); **A61P 35/00** (2017.12); **A61P 43/00** (2017.12); **C07K 14/4748** (2013.01); **C07K 14/70596** (2013.01); **G01N 33/57407** (2013.01); **G01N 33/57492** (2013.01); A61K 38/00 (2013.01); G01N 2333/705 (2013.01)

Citation (search report)

- [Y] KELIC S ET AL: "CD81 REGULATES NEURON-INDUCED ASTROCYTE CELL-CYCLE EXIT", MOLECULAR AND CELLULAR NEUROSCIENCES, SAN DIEGO, US, vol. 17, 2001, pages 551 - 560, XP002951199, ISSN: 1044-7431
- [Y] WEINSTEIN D E ET AL: "C17, a retrovirally immortalized neuronal cell line, inhibits the proliferation of astrocytes and astrocytoma cells by a contact-mediated mechanism.", GLIA 1990, vol. 3, no. 2, 1990, pages 130 - 139, XP002456347, ISSN: 0894-1491
- [A] MAECKER H T ET AL: "DIFFERENTIAL EXPRESSION OF MURINE CD81 HIGHLIGHTED BY NEW ANTI-MOUSE CD81 MONOCLONAL ANTIBODIES", HYBRIDOMA, LIEBERT, NEW YORK, NY, US, vol. 19, no. 1, February 2000 (2000-02-01), pages 15 - 22, XP009005201, ISSN: 0272-457X
- See references of WO 03040333A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03040333 A2 20030515**; **WO 03040333 A3 20060427**; AU 2002363524 B2 20081204; CA 2466334 A1 20030515; EP 1578915 A2 20050928; EP 1578915 A4 20080213; JP 2005537779 A 20051215; JP 4503287 B2 20100714; NZ 532989 A 20090430

DOCDB simple family (application)

**US 0235588 W 20021107**; AU 2002363524 A 20021107; CA 2466334 A 20021107; EP 02802862 A 20021107; JP 2003542580 A 20021107; NZ 53298902 A 20021107