

Title (en)

GANGLIOSIDE GM3 INDUCED APOPTOSIS OF NEURAL CELLS

Title (de)

GM3 GANGLIOSIDE INDUZIERTE APOPTOSE DER NEURALEN ZELLEN

Title (fr)

APOPTOSE DE CELLULES NEURONALES INDUITE PAR UN GANGLIOSIDE GM3

Publication

EP 0998294 A4 20010207 (EN)

Application

EP 98922465 A 19980522

Priority

- US 9810390 W 19980522
- US 4743097 P 19970522

Abstract (en)

[origin: WO9852577A1] The present invention relates to the ability of the ganglioside, GM3 to inhibit proliferation and induce apoptosis in proliferating CNS cells. The present invention further demonstrates the ability for GM3 to reduce cell numbers in primary cultures of rapidly proliferating human glial tumors and the 9L rat gliosarcoma cell line. In addition, GM3 is shown to have no effect on quiescent cultures of normal human CNS cells. A single injection of GM3 three days after intracranial implantation of tumor cells in a murine xenograft model system resulted in a significant increase in the symptom-free survival period of host animals. Therefore, GM3 is useful as a chemotherapeutic agent for human high grade gliomas.

IPC 1-7

A61K 31/70

IPC 8 full level

A61K 45/00 (2006.01); **A61K 31/70** (2006.01); **A61K 31/7032** (2006.01); **A61P 25/00** (2006.01); **A61P 35/00** (2006.01); **A61P 43/00** (2006.01)

IPC 8 main group level

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CPC (source: EP)

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Citation (search report)

- [Y] EP 0728763 A1 19960828 - DAIKIN IND LTD [JP]
- [XY] DATABASE WPI Section Ch Week 198647, Derwent World Patents Index; Class B03, AN 1986-308516, XP002149606
- [XY] DATABASE WPI Section Ch Week 199425, Derwent World Patents Index; Class B03, AN 1994-206348, XP002149607
- [Y] MERZAK ET AL.: "Gangliosides Modulate Proliferation, Migration, and Invasiveness of Human Brain Tumor Cells in vitro", MOL. CHEM. NEUROPATHOL., 1995, pages 121 - 135, XP000941051
- See references of WO 9852577A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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