

Title (en)

INHIBITION OF HERPESVIRIDAE INFECTION BY ANTISENSE OLIGONUCLEOTIDES

Publication

**EP 0547149 A4 19930901 (EN)**

Application

**EP 91916956 A 19910813**

Priority

US 56850190 A 19900815

Abstract (en)

[origin: WO9203051A1] Antisense oligomers which are complementary to vital regions of a viral genome or mRNA transcripts thereof which exhibit antiviral activity are provided. Methylphosphonate oligomers complementary to particular sequences of herpes simplex virus type 1 ("HSV-1") messenger RNA have demonstrated antiviral activity. Methods of inhibiting viral replication using these oligomers are provided.

IPC 1-7

**A01N 43/04**; **A61K 31/70**; **C07H 15/12**; **C07H 17/00**

IPC 8 full level

**A61K 31/70** (2006.01); **A61P 31/12** (2006.01); **A61P 31/22** (2006.01); **C07H 21/00** (2006.01); **C12N 7/00** (2006.01); **C12N 15/09** (2006.01); **C12N 15/11** (2006.01); **C12N 15/113** (2010.01)

CPC (source: EP KR)

**A61K 31/70** (2013.01 - EP KR); **A61P 31/12** (2017.12 - EP); **A61P 31/22** (2017.12 - EP); **C12N 15/1133** (2013.01 - EP); **C12N 2310/321** (2013.01 - EP); **C12N 2310/3521** (2013.01 - EP)

Citation (search report)

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- [E] WO 9112811 A1 19910905 - ISIS PHARMACEUTICALS INC [US]
- [E] WO 9205284 A1 19920402 - UNIV MARYLAND [US], et al
- [X] JOURNAL OF BIOLOGICAL CHEMISTRY vol. 264, no. 19, 5 July 1989, BALTIMORE, MD US pages 11521 - 11526 GAO, W. ET AL. 'EFFECT OF PHOSPHOROTHIOATE HOMO- OLIGODEOXYNUCLEOTIDES ON HERPES SIMPLEX VIRUS TYPE 2-INDUCED DNA POLYMERASE'
- [X] PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA vol. 83, May 1986, WASHINGTON US pages 2787 - 2791 SMITH, C.C. ET AL. 'Antiviral effect of an oligo(nucleoside methylphosphonate) complementary to the splice junction of herpes simplex virus type 1 immediate early pre-mRNAs 4 and 5'

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**WO 9203051 A1 19920305**; AU 3776395 A 19960229; AU 8617691 A 19920317; CA 2089476 A1 19920216; EP 0547149 A1 19930623; EP 0547149 A4 19930901; IE 912883 A1 19920226; IL 99172 A0 19920715; IL 99172 A 19990312; JP H06500469 A 19940120; KR 930701105 A 19930611; NZ 239372 A 19970624; TW 226408 B 19940711

DOCDB simple family (application)

**US 9105756 W 19910813**; AU 3776395 A 19951109; AU 8617691 A 19910813; CA 2089476 A 19910813; EP 91916956 A 19910813; IE 288391 A 19910814; IL 9917291 A 19910813; JP 51585391 A 19910813; KR 930700432 A 19930215; NZ 23937291 A 19910813; TW 80107693 A 19910930