

Title (en)
ANTI-VIRAL GUANOSINE-RICH OLIGONUCLEOTIDES

Title (de)
ANTIVIRALE GUANOSINERICHES OLIGONUKLEOTIDE

Title (fr)
OLIGONUCLEOTIDES ANTIVIRAUX RICHES EN GUANOSINE

Publication
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Application
EP 96930490 A 19960717

Priority

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- US 1368896 P 19960319

Abstract (en)
[origin: WO9703997A1] A method and compositions for treating viral infection in vitro and in vivo using a guanosine-rich oligonucleotide. The oligonucleotides have sufficient guanosine to form a guanosine tetrad. Also provided are oligonucleotides of at least two runs of at least two guanosines. Also provided are guanosine-rich oligonucleotides and methods for treating viral infections in humans, and a method for designing guanosine-rich oligonucleotides having anti-viral activity and integrase inhibition activity.

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IPC 8 full level
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Citation (search report)

- [XY] WO 9425037 A1 19941110 - TRIPLEX PHARMA CORP [US], et al
- [Y] WO 9408053 A1 19940414 - ISIS PHARMACEUTICALS INC [US], et al
- [DX] RANDO R F ET AL: "SUPPRESSION OF HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 ACTIVITY IN VITRO BY OLIGONUCLEOTIDES WHICH FORM INTRAMOLECULAR TETRADS", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 270, no. 4, 27 January 1995 (1995-01-27), pages 1754 - 1760, XP002068457, ISSN: 0021-9258
- [X] MOUSCADET JEAN-FRANCOIS ET AL: "Triplex-mediated inhibition of HIV DNA integration in vitro.", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 34, 1994, pages 21635 - 21638, XP002148820, ISSN: 0021-9258
- [A] FUJIHASHI T ET AL: "ANTIVIRAL ACTION OF OLIGODEOXYGUANYLIC ACIDS AGAINST HUMAN IMMUNODEFICIENCY VIRUS TYPE I", AIDS RESEARCH AND HUMAN RETROVIRUSES, vol. 11, no. 4, April 1995 (1995-04-01), pages 461 - 471, XP002068239, ISSN: 0889-2229
- [DPX] BISHOP JEFFREY S ET AL: "Intramolecular G-quartet motifs confer nuclease resistance to a potent anti-HIV oligonucleotide.", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 271, no. 10, 8 March 1996 (1996-03-08), pages 5698 - 5703, XP002148821, ISSN: 0021-9258
- [DPX] OJWANG JOSHUA O ET AL: "T30177, an oligonucleotide stabilized by an intramolecular guanosine, Octet, is a potent inhibitor of laboratory strains, and clinical isolates of human immunodeficiency virus type 1.", ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol. 39, no. 11, November 1995 (1995-11-01), pages 2426 - 2435, XP000946679, ISSN: 0066-4804
- [T] MAZUMDER ABHIJIT ET AL: "Inhibition of the human immunodeficiency virus type 1 integrase by guanosine quartet structures.", BIOCHEMISTRY, vol. 35, no. 43, 29 October 1996 (1996-10-29), pages 13762 - 13771, XP002148822, ISSN: 0006-2960
- See references of WO 9703997A1

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