

Title (en)

STABILIZED VIRAL ENVELOPE PROTEINS AND USES THEREOF

Title (de)

STABILISIERTE VIRALE BRIEFUMSCHLAG-PROTEINE UND IHRE VERWENDUNGEN

Title (fr)

PROTEINES D'ENVELOPPE VIRALE STABILISEE ET UTILISATIONS

Publication

EP 1198468 A4 20030730 (EN)

Application

EP 00944801 A 20000623

Priority

- US 0017267 W 20000623
- US 34099299 A 19990625

Abstract (en)

[origin: WO0100648A1] This invention provides an isolated nucleic acid which comprises a nucleotide segment having a sequence encoding a viral envelope protein comprising a viral surface protein and a corresponding viral transmembrane protein wherein the viral envelope protein contains one or more mutations in amino acid sequence that enhance the stability of the complex formed between the viral surface protein and transmembrane protein. This invention also provides a viral envelope protein comprising a viral surface protein and a corresponding viral transmembrane protein wherein the viral envelope protein contains one or more mutations in amino acid sequence that enhance the stability of the complex formed between the viral surface protein and transmembrane protein. This invention further provides methods of treating HIV-1 infection.

IPC 1-7

C07H 21/04; C07K 16/00; C07K 14/00; A01N 37/18; A01N 1/00; A61K 38/16; C12Q 1/68; G01N 33/53; C12P 21/06; C12N 15/00

IPC 8 full level

C12N 15/09 (2006.01); **A61K 31/711** (2006.01); **A61K 39/395** (2006.01); **A61K 45/00** (2006.01); **A61P 31/18** (2006.01); **C07K 14/16** (2006.01); **C07K 16/10** (2006.01); **C07K 19/00** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 7/00** (2006.01); **C12P 21/08** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP)

A61P 31/18 (2018.01); **C07K 16/1063** (2013.01); **A61K 39/00** (2013.01); **A61K 2039/53** (2013.01)

Citation (search report)

- [X] US 5886163 A 19990323 - HASEL KARL W [US], et al
- [X] FARZAN M ET AL: "Stabilization of human immunodeficiency virus type 1 envelope glycoprotein trimers by disulfide bonds introduced into the gp41 glycoprotein ectodomain", JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 72, no. 9, September 1998 (1998-09-01), pages 7620 - 7625, XP002097559, ISSN: 0022-538X
- [X] LABRANCHE CELIA C ET AL: "Biological, molecular, and structural analysis of a cytopathic variant from a molecularly cloned simian immunodeficiency virus.", JOURNAL OF VIROLOGY, vol. 68, no. 9, 1994, pages 5509 - 5522, XP009010814, ISSN: 0022-538X
- [X] LABRANCHE C C ET AL: "Biological, molecular, and structural analysis of a cytopathic variant from a molecularly cloned simian immunodeficiency virus.", JOURNAL OF VIROLOGY. UNITED STATES NOV 1994, vol. 68, no. 11, November 1994 (1994-11-01), pages 7665 - 7667, XP009010815, ISSN: 0022-538X
- [X] BURTON DENNIS R ET AL: "Efficient neutralization of primary isolates of HIV-1 by a recombinant human monoclonal antibody.", SCIENCE (WASHINGTON D C), vol. 266, no. 5187, 1994, pages 1024 - 1027, XP001147878, ISSN: 0036-8075
- [X] TRKOLA ALEXANDRA ET AL: "Human monoclonal antibody 2G12 defines a distinctive neutralization epitope on the gp 120 glycoprotein of human immunodeficiency virus type 1.", JOURNAL OF VIROLOGY, vol. 70, no. 2, 1996, pages 1100 - 1108, XP002241179, ISSN: 0022-538X
- [PX] BINLEY J M ET AL: "A RECOMBINANT HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 ENVELOPE GLYCOPROTEIN COMPLEX STABILIZED BY AN INTERMOLECULAR DISULFIDE BOND BETWEEN THE GP120 AND GP41 SUBUNITS IS AN ANTIGENIC MIMIC OF THE TRIMERIC VIRION-ASSOCIATED STRUCTURE", JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 74, no. 2, January 2000 (2000-01-01), pages 627 - 643, XP002939087, ISSN: 0022-538X
- See also references of WO 0100648A1

Cited by

WO2007107090A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0100648 A1 20010104; AU 5884200 A 20010131; AU 782123 B2 20050707; CA 2370517 A1 20010104; EP 1198468 A1 20020424;
EP 1198468 A4 20030730; HK 1046911 A1 20030130; JP 2003509013 A 20030311

DOCDB simple family (application)

US 0017267 W 20000623; AU 5884200 A 20000623; CA 2370517 A 20000623; EP 00944801 A 20000623; HK 02107688 A 20021023;
JP 2001507055 A 20000623