

Title (en)

NOVEL AMPHIPHILIC COMPOUNDS, PREPARATION METHOD THEREOF AND APPLICATIONS OF SAME

Title (de)

NEUE AMPHIPHILE VERBINDUNGEN, HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNGEN

Title (fr)

NOUVEAUX COMPOSES AMPHIPHILES, LEUR PROCEDE DE PREPARATION ET LEURS APPLICATIONS

Publication

EP 1745061 A1 20070124 (FR)

Application

EP 05767494 A 20050427

Priority

- FR 2005001042 W 20050427
- FR 0404554 A 20040429

Abstract (en)

[origin: WO2005116043A1] The invention relates to a compound having formula (I), wherein: X = O, S or -CH₂-; B = a purine or pyrimidine base; L₁, L₂, = an oxycarbonyl, thiocarbamate, carbonate and carbamate group, an oxygen atom, or together form a ketal or thioketal group; R₁, R₂ = a linear or branched alkyl; and R₃ = a group selected from hydroxy, amino, phosphate, phosphonate, O-alkyl phosphatidylcholine, phosphatidylethanolamine, O-alkyl-phosphatidylethanolamine, O-alkylphosphate, thiophosphate, phosphonium, NH₂-R₄, cyclodextrin group, NHR₄R₅ or NR₄R₅R₆, in which R₄, R₅ and R₆, = H or an alkyl or hydroxyalkyl radical or a group having formula (II), wherein V and W = bond - O-, -S-, or -NH-, Z = R₃, R₁ or R₂, n = 1 to 500, and A₁ and A₂ = alkyl at C1-C5 or acyl at C1-C5, and, if necessary, the counter-ion is selected from among tosylate, halide, nitrate, sulphate, sulphonate and thiosulphate. The invention also relates to the use of compounds having formula (I) for the transport and/or delivery of biologically-active molecules or macromolecules.

IPC 8 full level

C07H 19/06 (2006.01); **A61K 31/7072** (2006.01); **C07H 19/10** (2006.01); **C12N 15/87** (2006.01)

CPC (source: EP)

C07H 19/06 (2013.01); **C07H 19/10** (2013.01); **C12N 15/87** (2013.01)

Citation (search report)

See references of WO 2005116043A1

Citation (examination)

- WO 2004052905 A2 20040624 - HOFFMANN LA ROCHE [CH]
- LOUIS MOREAU ET AL: "Nucleoside phosphocholine amphiphile for in vitro DNA transfection", MOLECULAR BIOSYSTEMS, vol. 1, no. 3, 1 January 2005 (2005-01-01), pages 260, XP055214110, ISSN: 1742-206X, DOI: 10.1039/b503302k

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2005116043 A1 20051208; EP 1745061 A1 20070124; FR 2869616 A1 20051104; FR 2869616 B1 20081024

DOCDB simple family (application)

FR 2005001042 W 20050427; EP 05767494 A 20050427; FR 0404554 A 20040429