

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

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Application

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Priority

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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

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CPC (source: EP)

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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

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