

Title (en)
CATIONIC PEG-LIPIDS AND METHODS OF USE

Title (de)
KATIONISCHE PEG-LIPIDE UND VERFAHREN ZU IHRER VERWENDUNG

Title (fr)
LIPIDES PEG CATIONIQUES ET METHODES D'UTILISATION

Publication
EP 1173600 A2 20020123 (EN)

Application
EP 00920309 A 20000420

Priority
• CA 0000451 W 20000420
• US 13015199 P 19990420

Abstract (en)
[origin: WO062813A2] The present invention provides cationic-polymer-lipid conjugates (CPLs) such as distal cationic-poly(ethylene glycol)-lipid conjugates which can be incorporated into conventional and stealth liposomes or other lipid-based formulation for enhancing cellular uptake. The CPLs of the present invention comprise a lipid moiety; a hydrophilic polymer; and a polycationic moiety. Method of increasing intracellular delivery of nucleic acids are also provided.

IPC 1-7
C12N 15/88; **A61K 47/48**; **A61K 9/127**; **A61K 49/00**

IPC 8 full level
A61K 9/127 (2006.01); **A61K 31/439** (2006.01); **A61K 31/7028** (2006.01); **A61K 31/711** (2006.01); **A61K 31/7135** (2006.01); **A61K 38/00** (2006.01); **A61K 39/00** (2006.01); **A61K 45/00** (2006.01); **A61K 47/30** (2006.01); **A61K 47/34** (2006.01); **A61K 47/48** (2006.01); **A61K 48/00** (2006.01); **A61K 49/00** (2006.01); **A61P 35/00** (2006.01); **A61P 37/00** (2006.01); **C07K 4/00** (2006.01); **C08G 85/00** (2006.01)

CPC (source: EP)
A61K 9/1272 (2013.01); **A61K 47/543** (2017.07); **A61K 47/60** (2017.07); **A61K 47/6911** (2017.07); **A61K 48/00** (2013.01); **A61P 35/00** (2017.12); **A61P 37/00** (2017.12); **A61P 37/02** (2017.12)

Citation (search report)
See references of WO 0062813A2

Citation (examination)
• EP 1262490 A1 20021204 - MITSUBISHI PHARMA CORP [JP], et al
• EP 1046394 A2 20001025 - IMARX PHARMACEUTICAL CORP [US]

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 0062813 A2 20001026; **WO 0062813 A3 20010809**; AU 4096200 A 20001102; AU 783647 B2 20051117; CA 2370690 A1 20001026; EP 1173600 A2 20020123; JP 2002542341 A 20021210; JP 2012122075 A 20120628; JP 5117648 B2 20130116

DOCDB simple family (application)
CA 0000451 W 20000420; AU 4096200 A 20000420; CA 2370690 A 20000420; EP 00920309 A 20000420; JP 2000611949 A 20000420; JP 2012017765 A 20120131