

Title (en)  
CATIONIC AMPHIPHILES

Title (de)  
KATIONISCHE AMPHIPHILE

Title (fr)  
AMPHIPHILES CATIONIQUES

Publication  
**EP 0807116 A4 19980107 (EN)**

Application  
**EP 94924449 A 19940622**

Priority  
US 9407071 W 19940622

Abstract (en)  
[origin: WO9535301A1] Cationic amphiphiles are provided that are alkyl or alkoxyalkyl O-phosphate esters of diacylphosphatidyl zwitterionic compounds such as phosphatidylcholine or phosphatidyl ethanolamine. The amphiphiles can be used as carriers for delivering macromolecules intracellularly.

IPC 1-7  
**C07F 9/02**; **C07H 21/00**; **A61K 35/00**; **C07J 11/00**

IPC 8 full level  
**C07J 11/00** (2006.01); **A61K 9/127** (2006.01); **C07F 9/10** (2006.01)

CPC (source: EP)  
**A61K 9/1271** (2013.01); **C07F 9/10** (2013.01)

Citation (search report)

- [X] EP 0099068 A1 19840125 - MAX PLANCK GESELLSCHAFT [DE]
- [DA] WO 9116024 A1 19911031 - VICAL INC [US]
- [A] WO 9405624 A1 19940317 - LIFE TECHNOLOGIES INC [US]
- [E] WO 9526356 A1 19951005 - UNIV NORTHWESTERN [US], et al
- [T] SOLODIN I ET AL: "SYNTHESIS OF PHOSPHOTRIESTER CATIONIC PHOSPHOLIPIDS, CATIONIC LIPIDS 2", SYNLETT, no. 5, May 1996 (1996-05-01), pages 457/458, XP000645321
- [T] HARRIS D J ET AL: "THE DEVELOPMENT OF IMPROVED CATIONIC LIPIDS FOR GENE TRANSFER INTO CYSTIC FIBROSIS AIRWAY EPITHELIAL CELLS", PHOSPHORUS, SULPHUR AND SILICON AND THE RELATED ELEMENTS, vol. 109/110, no. 1/04, 1996, pages 289 - 292, XP000676977
- See references of WO 9535301A1

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