

Title (en)

CHARGE NEUTRALIZATION OF POLYION COMPLEXES

Title (de)

LADUNGSNEUTRALISIERUNG VON POLYIONKOMPLEXEN

Title (fr)

NEUTRALISATION DE CHARGE DE COMPLEXES DE POLYIONS

Publication

EP 1841864 A4 20081112 (EN)

Application

EP 06718148 A 20060112

Priority

- US 2006001037 W 20060112
- US 64729305 P 20050126
- US 4659805 A 20050128

Abstract (en)

[origin: WO2006081074A2] Polyampholyte are able to condense nucleic acid to form small complexes which can be utilized in the delivery of nucleic acid to mammalian cells. The polyampholytes can be formed prior to interaction with nucleic acid or they can be formed in the presence of nucleic acid. Stabilized polycation/nucleic acid complexes can be modified to reduce the positive charge of the polycation and add targeting ligands without destabilizing the complex. The resultant particles retain their small size and are more effective in delivery of nucleic acid to cells *in vivo*.

IPC 8 full level

C12N 15/00 (2006.01); **C12N 15/09** (2006.01); **C12N 15/70** (2006.01); **C12N 15/74** (2006.01)

CPC (source: EP)

A61K 48/0091 (2013.01); **C12N 15/87** (2013.01)

Citation (search report)

- [X] WO 0003694 A1 20000127 - MIRUS CORP [US]
- [X] WO 03099228 A2 20031204 - MIRUS CORP [US]
- [X] US 2004067587 A1 20040408 - TRUBETSKOY VLADIMIR S [US], et al
- [X] US 2002052335 A1 20020502 - ROZEMA DAVID B [US], et al
- See references of WO 2006081074A2

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006081074 A2 20060803; WO 2006081074 A3 20060914; EP 1841864 A2 20071010; EP 1841864 A4 20081112

DOCDB simple family (application)

US 2006001037 W 20060112; EP 06718148 A 20060112