

Title (en)

PEPTIDES FOR EFFICIENT GENE TRANSFER

Title (de)

PEPTIDE FÜR EINEN EFFIZIENTEN GENTRANSFER

Title (fr)

PEPTIDES PERMETTANT UN TRANSFERT GENIQUE EFFICACE

Publication

EP 1071472 A1 20010131 (EN)

Application

EP 99919987 A 19990423

Priority

- US 9908884 W 19990423
- US 6589198 A 19980423

Abstract (en)

[origin: WO9953961A1] The present invention relates to nucleic acid condensates comprising a nucleic acid bound to a polycationic peptide, and in particular a CWK (cysteine, tryptophan, lysine) polycationic peptide, and to methods of making and using such condensates. The invention further relates to a novel pharmaceutical compositions comprising condensed DNA incorporated into matrices (gene-activated matrices) that may be utilized for delivery of nucleic acids into targeted cells. The invention further relates to methods for producing gene-activated matrices involving the addition of polycationic peptides, and in particular a CWK polycationic peptide, to negatively charged DNA prior to incorporation into a matrix. The invention further relates to the linkage of the polycationic peptides to ligand molecules, thus permitting targeting of the DNA to specific targeted cell types. The present invention provides pharmaceutical formulations and methods that are applicable to wound healing and a wide variety of genetic or acquired diseases.

IPC 1-7

A61K 48/00; **C12N 15/00**; **C12N 15/11**; **C12N 15/63**; **C12N 15/85**; **C12N 15/86**

IPC 8 full level

A61K 48/00 (2006.01); **A61P 17/02** (2006.01); **C07K 14/00** (2006.01); **C12N 15/87** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)

A61K 48/00 (2013.01); **A61P 17/02** (2017.12); **C07K 14/001** (2013.01); **C12N 15/87** (2013.01); **A61K 38/00** (2013.01); **C07K 2319/00** (2013.01)

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 9953961 A1 19991028; **WO 9953961 A9 20000908**; AU 3758199 A 19991108; EP 1071472 A1 20010131; EP 1071472 A4 20020417

DOCDB simple family (application)

US 9908884 W 19990423; AU 3758199 A 19990423; EP 99919987 A 19990423