

Title (en)

COMPOSITION FOR INTRACELLULAR TRANSPORT OF BIOLOGICAL PARTICLES OR MACROMOLECULES

Title (de)

ZUSAMMENSETZUNG ZUM INTRAZELLULÄREN TRANSPORT VON BIOLOGISCHEN MAKROMOLEKÜLEN ODER TEILCHEN

Title (fr)

COMPOSITION POUR LE TRANSPORT INTRACELLULAIRE DE MACROMOLECULES OU PARTICULES BIOLOGIQUES

Publication

EP 1583560 A1 20051012 (FR)

Application

EP 03815710 A 20031231

Priority

- FR 0303951 W 20031231
- FR 0300093 A 20030107

Abstract (en)

[origin: FR2849603A1] Preparing a composition (A) for introducing, into a living cell, a cargo (B) comprising a macromolecule or a molecular assembly of largest dimension not over 1 micron and having one or more hydrophobic domains (HD) on its surface, is new. Preparing a composition (A) for introducing, into a living cell, a cargo (B) consisting of a macromolecule or a molecular assembly of largest dimension not over 1 micron and having one or more hydrophobic domains (HD) on its surface. The method comprises adsorption, on HD, of at least one transducer peptide (I), excluding those of 16-30 amino acids (aa) that contain an HD of 3-5 Trp residues (including at least one Trp-Trp pair), alternating with Glu or Thr residues, and a hydrophilic domain of 4 or 5 consecutive basic residues. An Independent claim is also included for (A) prepared by the new process.

IPC 1-7

A61K 47/42; **C12N 15/87**

IPC 8 full level

A61K 47/42 (2006.01); **C12N 7/01** (2006.01); **A61K 48/00** (2006.01)

CPC (source: EP US)

A61K 9/0019 (2013.01 - EP US); **A61K 47/42** (2013.01 - EP US); **A61K 48/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2004069279A1

Citation (examination)

- WO 03004600 A2 20030116 - UNIV YALE [US], et al
- FR 2786397 A1 20000602 - SYNT EM [FR]
- LEWIN ET AL: "Tat peptide-derivatized magnetic nanoparticles allow in vivo tracking and recovery of progenitor cells.", NAT BIOTECHNOL., vol. 18, no. 4, April 2000 (2000-04-01), pages 410 - 414, XP002958421, DOI: doi:10.1038/74464
- TSENG Y.-L. ET AL: "Translocation of liposomes into cancer cells by cell-penetrating peptides penetratin and tat: a kinetic and efficacy study.", MOL PHARMACOL., vol. 62, no. 4, October 2002 (2002-10-01), pages 864 - 872, XP002404425, DOI: doi:10.1124/mol.62.4.864

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2849603 A1 20040709; **FR 2849603 B1 20060908**; AU 2003303902 A1 20040830; AU 2003303902 A8 20040830; EP 1583560 A1 20051012; US 2007054401 A1 20070308; WO 2004069279 A1 20040819

DOCDB simple family (application)

FR 0300093 A 20030107; AU 2003303902 A 20031231; EP 03815710 A 20031231; FR 0303951 W 20031231; US 54159403 A 20031231