

Title (en)

SYNTHETIC POLYAMINOACID COMPLEXES FOR DELIVERY OF NUCLEIC ACIDS TO TARGET CELLS

Title (de)

SYNTHETISCHE POLYAMIOSAURE KOMPLEXEN ZUR VERABREICHUNG VON NUKLEINSÄUREN ZUR ZIELZELLEN

Title (fr)

SYSTEME POLYMERES AUX FINS DE L'APPORT D'ACIDE NUCLEIQUE A DES CELLULES CIBLES DANS DES SYSTEMES BIOLOGIQUES

Publication

EP 1075279 A2 20010214 (EN)

Application

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Priority

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Abstract (en)

[origin: WO9958151A2] A synthetic polymer-based carrier vehicle and a method of constructing the synthetic polymer-based carrier vehicle for delivery of nucleic acid material to target cells in biological systems are described. The method comprising the steps of: a) providing a cationic polyelectrolyte polymer material including a (I) derivative of an amino acid or a synthetic amino acid, or a vinyl-type polymer; and b) bringing the nucleic acid material into association with said cationic polyelectrolyte polymer material to form by self-assembly therebetween a polyelectrolyte complex which provides a nucleic acid containing cationic polymer core for said carrier vehicle. The synthetic polymer-based carrier vehicle includes the amino acid derivative or the vinyl type polymer made by the method. The derivative is preferably a polyglutamine or polyasparagine derivative.

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