

Title (en)
REDUCIBLE POLYMERS FOR NON-VIRAL GENE DELIVERY

Title (de)
REDUZIERBARE POLYMERE FÜR NICHTVIRALE GENFREISETZUNG

Title (fr)
POLYMÈRES RÉDUCTIBLES POUR L'ADMINISTRATION DE GÈNES NON VIRAUX

Publication
EP 2396365 A4 20131030 (EN)

Application
EP 10741516 A 20100211

Priority
• US 2010000390 W 20100211
• US 20739209 P 20090211

Abstract (en)
[origin: WO2010093452A2] Provided herein are biodegradable copolymers and nanoplex delivery systems comprising the same and a cargo molecule, such as a nucleic acid, a polynucleotide or other biomolecule. The biodegradable copolymers may comprise a reducible polymer linearly modified with lysine, such as a linear lysine-modified N,N'-cystamine bisacrylamide. The biodegradable copolymers also may be conjugated to a sequestering moiety, such as diethylethylamine. The biodegradable copolymers also may comprise one or both of a targeting moiety and one or more moieties to facilitate endosomal escape. Also provided are methods for treating a pathophysiological condition and for increasing biocompatibility of a polymeric delivery system upon delivery to a subject using the biodegradable copolymers and nanoplexes.

IPC 8 full level
C08G 69/48 (2006.01); **A61K 9/16** (2006.01); **A61K 31/7105** (2006.01); **A61K 47/34** (2006.01); **A61K 47/48** (2006.01); **A61K 48/00** (2006.01); **C08G 69/10** (2006.01); **C08L 101/16** (2006.01); **C12N 15/87** (2006.01)

CPC (source: EP)
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Citation (search report)

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