

cationic vectors in ocular pdf

PDF | Despite extensive research in the field, the major problem in the ocular drug delivery domain still is rapid precorneal drug loss and poor corneal permeability. One of the approaches ...

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Cationic Vectors in Ocular Drug Delivery LAURA RABINOVICH-GUILATTA^{a,b}, PATRICK COUVREUR^a, GREGORY LAMBERT^b and CATHERINE DUBERNET^{a,*} aUMR CNRS 8612, School of Pharmacy, Châteauneuf Malabry, 92296 ...

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Cationic Vectors in Ocular Drug Delivery | Gregory Lambert

forming sustained release systems, which can be tailored according to the ocular tissue being targeted. The present review focuses on developments and advances in various nano-vectors for the ocular delivery of nucleic acid-based therapeutics, the barriers that such delivery systems face and methods to overcome them.

Nano-vectors for the Ocular Delivery of Nucleic Acid

Non-viral vectors based on the use of cationic lipids or polymers appear to have promising potential, given the problems of safety encountered with viral vectors. Using these non-viral vectors, the current challenge is to obtain a similarly effective transfection to viral ones.

Progress in developing cationic vectors for non-viral

Latanoprost in cationic emulsion showed no obvious ocular toxicity after multiple instillations, and was as well tolerated by the ocular surface as the negative control. The positive charge of the cationic emulsion was brought about by the very low concentration of CKC (0.005%) trapped in the oil phase (oil droplets) of the nonpreserved LCEm emulsion [16 , 17].

Comparison of the ocular tolerability of a latanoprost

increased transfection efficiency; (b) cationic vectors inhibited the transfection efficiency by electroporation. Conclusion: Our results demonstrate that cationic vectors and electroporation are feasible and efficient in transfecting human cancer cell lines. However, a combination of cationic vectors and electroporation is ineffective.

In Vitro Gene Transfer Using Cationic Vectors

Development of a Cationic Nanoemulsion Platform (Novasorb®) for Ocular Delivery Frédéric Lallemand, Philippe Daull and Jean-Bastien Garrigue 24.1 Introduction Drug delivery across mucosal barriers has always been a challenge, and crossing the eye mucosa is no exception. The eye surface is a unique and complex mucosa with

Chapter 24 Development of a Cationic Nanoemulsion Platform

PEGylated Cationic Vectors Containing a Protease-Sensitive Peptide as a miRNA Delivery System for Treating Breast Cancer Ye Zeng , Zixuan Zhou , Minmin Fan , Tao Gong , Zhirong Zhang , and Xun Sun *

PEGylated Cationic Vectors Containing a Protease-Sensitive

Biological properties of cationic oil-in-water nanoemulsion eye drops. The rationale for developing cationic

o/w nanoemulsion eye drops arose from the observation that the ocular mucosa is negatively charged.

Benefits of cetalkonium chloride cationic oil-in-water

The eye is a good target due to its small size, minimal diffusion of therapeutic agent to the systemic circulation, and low immune and inflammatory responses. Currently, most approaches are based on viral vectors, but efforts continue towards the synthesis and evaluation of new nonviral carriers to improve nucleic acid delivery.

