

عنوان مقاله:

Preparation and delivery of Polymeric Nano Donepezil for optimal crossing of the blood–brain barrier

محل انتشار:

اولین کنفرانس ملی میکرو نانو فناوری (سال: 1397)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Amir Kazemi - Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin Iran

Shahriar Ghamami - Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin Iran

خلاصه مقاله:

Drug delivery to the human brain is a major challenge in the development of medicines. One of the most important problems in the drug delivery to the Brain is the passage of the blood–brain barrier (BBB), which is responsible for protecting the brain. Due to the importance of the role of this layer in protecting the brain, preserving the structure of this layer in drug delivery is one of the important considerations in medicine. Non-invasive methods are the best way to deliver a medication to the brain. In this study, the optimal and targeted transfer of nano drugs to non-invasive methods for the treatment of Alzheimer s disease was evaluated. We have investigated the production and release of polymeric nano donepezil coated by Chitosan and PEG as a non-invasive method. This new compound were characterized by spectroscopic methods such as FT-IR and X-ray diffraction, SEM techniques and some physical properties. Then, drug release and also the toxicity of this drug tested for body by In-Vitro method

کلمات کلیدی:

Blood–brain barrier; Alzheimer; Donepezil; Nanoparticle; Drug delivery; In-Vitro

لینک ثابت مقاله در پایگاه سیویلیکا:

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