

عنوان مقاله:

Synthesis of PLGA-PEG Nanocarrier for Naringenin Delivery to Cancer Cells

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1394)

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نویسندگان:

Asghar Amiri - Department of Chemistry, Payame Noor University, P.O. BOX ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

Mohammad Rahimipour - Department of Chemistry, Payame Noor University, P.O. BOX ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

خلاصه مقاله:

In this research, poly (D,L-lactide-co-glycolide)-block-poly (ethylene glycol), (PLGA-PEG) nanoparticles (NPs) of less than 195 nm in diameter containing of Naringenin (NRG) a naturally flavonoid were synthesized. Encapsulated form NRG improves its medical properties and solubility. The therapeutic efficacy of the encapsulated naringenin (NRG-NPs) and NRG on human lung epithelial (A549) and mouse mammary (4T1) carcinoma cells proliferation was determined by MTT assays. . The cytotoxicity potency was rated as follows: NRG-NPs > NRG. The antioxidant effects of the NRG and NRG-NPs were also determined by FRAP method. Our results show that NRG-NPs are cytotoxic compounds for cancer cells and anti-cancer effect can be attributed to the presence of Fe chelatory and antioxidant effects of NRG-NPs

کلمات کلیدی:

Cytotoxicity- Antioxidant- Cell line- Naringenin- Nanoparticles

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