

عنوان مقاله:

Efficiency Normal and Loaded Parthenolide on Nano-meso Particles as Antiproliferative Agent Against Breast Cancer
Cell Line In vitro

محل انتشار:

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خلاصه مقاله:

Background: Parthenolide is major sesquiterpene lactones present in *Tanacetum parthenium* (L.) Sch.Bip. (feverfew). This compound is known as herbal active principals with potential use in pharmaceutical and medicine. In order to solubility improving, analogue of Parthenolide, aminopropyl theoxy silane -mesoporous silica of Parthenolide, was synthesized as well. In this study, it was extracted from fresh flowers of feverfew and was purified and identified by chromatography methods Cell death of breast cancer cell line MDA-MB-231 was assayed 24 hour after administration of normal and nanoparticle Parthenolide by Methylthiazol Tetrazolium test and Annexin-V-Fluorescence kit and scanning electron microscopy. The results revealed that anti-growth effect of Parthenolide is independent of exposure time and induced apoptosis in cancer cells yet this effect on fibroblast cells as normal ones did not recognized which guarantees the use of this medicinal herb to treat cancers without promotion of other not interested side effect

کلمات کلیدی:

Cell viability, HPLC, mesoporous silica of PTL, Parthenolide, MTT test

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