

عنوان مقاله:

Effects of different concentrations of Ziziphus Jujube L. (Rosales: Ramnaceae) on Inhibition of breast cancer cell proliferation (MCF-7)

محل انتشار:

سومین کنگره بین المللی و چهارمین همایش ملی زیست فناوری گیاهان دارویی و قارچهای کوهی (مجازی) (سال: 1400)

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خلاصه مقاله:

Ziziphus Jujube L. (Rosales: Ramnaceae) is a fruit tree that grows with different characteristics and flavors in some tropical and subtropical regions of the world. This fruit has been used as food and medicine. Phytochemical studies on Z. jujube have led to the extraction and identification of various alkaloids, flavonoids, tannins, sterols and saponin. The aim of this study was to evaluate the anti-proliferative properties of Z. Jujube aqueous extract in low concentrations on breast cancer cells (Mcf-7). After preparation of Z. Jujube fruit, its kernels were separated and the fruit was dried. The concentrations of 30, 60, 120 and 240 µg/ml from this extract were added to the cell culture medium. The non-treated group was considered as a control. Anti-proliferative properties were evaluated by MTT assay. Data were analyzed in SPSS software and a significance level of 5% was considered. Addition of 240 µg/ml aqueous extract to the culture medium of cancer cells had the greatest toxicity effect compared to other concentrations of aqueous extract ($p < 0.05$). In this study, the anti-proliferative effects of different concentrations were dose-dependent. Finally, it seems that Z. Jujube aqueous extract has relative anti-proliferative effects at high concentrations, which used in this essay

کلمات کلیدی:

Aqueous extract, Anti-cancer, Cytotoxicity, Jujube, Apoptosis

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