

عنوان مقاله:

Anti-proliferative and apoptotic effects of Ziziphus Jujube on cervical and breast cancer cells

محل انتشار:

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خلاصه مقاله:

Objectives: Ziziphus Jujube (Jujube) plant has exhibited numerous medicinal and pharmacological properties including antioxidant and anti-inflammatory effects. This study was carried out to investigate its anti-cancer and pro-apoptotic abilities in human cervical and breast cancer cells in vitro. Materials and Methods: The cervical OV2008 and breast MCF-7 cancer cells were incubated with different concentrations of Jujube aqueous extraction (0-3 mg/ml) for various times (0-72 h). Cell viability was assessed by Trypan Blue and 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay. The expression of two apoptosis-related genes in treated cells evaluated by quantitative Real Time -PCR analysis. Results: Jujube significantly inhibited cancer cell viability in a dose- and time- dependent manner. Herb-induced apoptosis was associated with enhanced expression of Bax and decreased Bcl2 gene leading eventually to a time-dependent six fold increase in the Bax/Bcl-2 ratio. Conclusions: These results .indicated that Jujube may be a natural potential and promising agent to prevent or treat human cancers

کلمات کلیدی:

Ziziphus Jujube, Cervical Cancer, Breast Cancer, Apoptosis

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