

عنوان مقاله:

Effects of *Onosma dichroanthum* Boiss. root extract on AGShuman gastric cancer cell-line

محل انتشار:

اولین کنفرانس بین المللی زیست شناسی گیاهان دارویی (سال: 1401)

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خلاصه مقاله:

Gastric cancer is one of the most cancer-related death causes in Golestan province, Iran. In traditional approaches, *Onosma dichroanthum* Boiss. roots have been used as an antiseptic and anti-inflammatory for wound healing treatment within long times. The aim of this study was to assess their *in vitro* cytotoxic and anticancer effects of *O. dichroanthum* Boiss. roots from the Golestan province of Iran. After taxonomical identification of *O. dichroanthum* Boiss., different concentrations of the hydroalcoholic root extract were used. Three different time periods (۲۴, ۴۸, and ۷۲ h) were used to treat AGS gastric cancer and L-۹۲۹ normal fibroblasts cell lines. The evaluation of different concentrations of root extract was performed by ۳-(۴,۵-dimethylthiazol-۲-yl)-۲,۵-diphenyltetrazolium bromide (MTT) assay. The ۴۸ h treatment affected cell survival, while the concentration of ۶۴ µg/mL was determined as IC₅₀ concentrations at ۴۸ h incubation time. The ۴۸h incubation time with ۶۴ µg/mL showed the best effectiveness on cancerous cell-line while being safe for normal cell-line. Our results show that *O. dichroanthum* Boiss. roots extract may have cytotoxic and safe effects on gastric cancer cell-line and normal cells in ۴۸ h treatment periods, respectively. The results indicated the *O. dichroanthum* Boiss. may be as an effective anticancer agent in gastric cancer cases.

کلمات کلیدی:

AGS cancer cell-line; L-۹۲۹ normal cell-line; *Onosma dichroanthum* Boiss.; hydroalcoholic extract

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