عنوان مقاله:

Marrubium persicum İmproved the Biological Parameters Associated with Angiogenesis and İnflammation in Mice

محل انتشار:

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خلاصه مقاله:

The genus Marrubium, belonging to the family Lamiaceae, is highly praised in herbal medicine of different countries for having renowned healing properties. Herein, the anti-inflammatory and anti-angiogenesis potential of Marrubium persicum methanol extract was evaluated in a mouse air pouch model of inflammation. Aerial parts of M. persicum were solvent extracted using the Soxhlet apparatus. Subsequently, air injections were performed (for ۳ days) into the mice's backs to bring about an air pouch, while carrageenan was used to induce inflammation. The mice were divided into four groups, including; negative control (normal saline into the pouch), control (carrageenan), treatment and positive control (dexamethasone). The inflammatory markers were analyzed ۴۸h after injecting carrageenan, and a haemoglobin assay kit assessed the quantification of angiogenesis in granulation tissue. M. persicum methanol extract at doses of ۳.۵, ۵, ۷.۵ and ۱۰ mg/kg represented significant decreases in inflammatory parameters. Compared to the control group, the optimum dose (۳.۵ mg/kg) lessened the myeloperoxidase (MPO) and angiogenesis activity, as well as haemoglobin levels. In sum, the methanol extract of M. persicum exhibited anti-inflammatory effects against carrageenan-induced inflammation, which could be related to its antioxidant and inhibitory effects on neutrophils' infiltration.

کلمات کلیدی:

Lamiaceae, methanol extract, Myeloperoxidase, Haemoglobin, neutrophils' infiltration