

Anti-inflammatory effect of methanolic extract of root of *Dorema glabrum* in carrageenan test in mice

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Anti-inflammatory potentials of methanolic extract of root of *Dorema glabrum* was evaluated against different animal models in rodents. Anti-inflammatory effects of *Dorema glabrum* was assessed in rat using the carrageenan test. Anti-inflammatory effects of *Dorema glabrum* in three different doses, namely, 50 mg/kg, 100 mg/kg and 200 mg/kg were evaluated by utilizing different animal models representing various changes associated with inflammation, namely, carrageenan-induced paw edema. Also *Dorema glabrum* was phytochemically evaluated using chromatographic method. The *Dorema glabrum* did not exhibit any signs of toxicity up to a dose of 200 mg/kg. The extract showed statistical significant inhibition of induced inflammation in dose dependent manner. The higher dose of extract significantly inhibited inflammation against control ($P < 0.05$). The present study scientifically demonstrated the anti-inflammatory potential of roots of *Dorema glabrum* methanolic extract. These effects may be attributed to the presence of polyphenolic phytoconstituents in the extract.

Biography

Azam Bakhtiarian is an Associate Professor in the Department of Pharmacology, School of Medicine, Tehran University of Medical Sciences. She has received her PhD in Pharmacology from University of California, Irvine, USA. She is working in the field of pharmacology and toxicology looking at different aspects of drugs action both *in-vivo* and *in-vitro*.

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