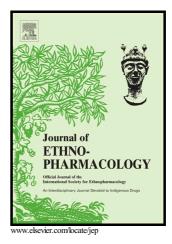
Author's Accepted Manuscript

Protective effect of *Sesbania grandiflora* on acetic acid induced ulcerative colitis in mice by inhibition of TNF- α and IL-6

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PII:S0378-8741(17)33016-7DOI:https://doi.org/10.1016/j.jep.2018.02.043Reference:JEP11254

To appear in: Journal of Ethnopharmacology

Received date: 13 August 2017 Revised date: 3 January 2018 Accepted date: 28 February 2018

Cite this article as: Rohit A. Gupta, Meha N. Motiwala, Ujawala N. Mahajan and Sapna S. Sabare, Protective effect of *Sesbania grandiflora* on acetic acid induced ulcerative colitis in mice by inhibition of TNF- α and IL-6, *Journal of Ethnopharmacology*, https://doi.org/10.1016/j.jep.2018.02.043

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Abstract

Ethnopharmacological relevance:

The plant *Sesbania grandiflora* (Linn) belonging to the family Fabaceae is commonly known as sesbania, agathi, and katurai. The plant is accredited for alleviating a spectrum of ailments including inflammation, colitis, diarrhea, dysentery, leprosy, gout, rheumatism, jaundice, bronchitis, convulsion and anxiety. It is also used as antitumour, anthelmintic, and laxatives in Ayurveda and Siddha system of Indian traditional medicine.

Aim:

To reveal protective effect of *Sesbania grandiflora* in acetic acid induced ulcerative colitis in mice.

Materials and method:

Polyphenol, flavonoid and flavanone contents of different extracts of *S. grandiflora* leaves were quantified and correlated with their antioxidant capacity *in-vitro* (DPPH assay) for identification of potential fraction. In further studies hydroalocholic extract (HASG, 100 and 200 mg/kg) was evaluated for protective effect towards acetic acid induced ulcerative colitis

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