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Anti-nociceptive Effect of Methanol Extract of Leaves of *Senna singueana* in Mice

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Abstract

Ethnopharmacological Relevance

Senna singueana (Del.) Lock (*Fabaceae*) is a shrub or tree found in Ethiopia and other African countries. It has been traditionally used for different conditions including treatment of pain conditions in humans and animals. Although various reports are available in the literature claiming different activities of the plant, scientific studies supporting analgesic potential of *S. singueana* are lacking and the present study aimed to investigate the antinociceptive effect of methanol extract of leaves of *S. singueana* in mice.

Materials and Methods

Anti-nociceptive activity of *S. singueana* (200 mg/kg and 400mg/kg, p.o) was investigated using acetic acid-induced writhing, formalin-induced paw licking, and hot plate tests. Acute oral toxicity was determined using a slightly modified guideline (423) of the Organization for Economic Cooperation and Development.

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