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(57) Abstract :
 The present invention relates to a hydroalcoholic extract of Ailanthus excelsa leaves, demonstrated to exhibit significant anti-inflammatory activity in experimental models. The extract was evaluated using the carrageenan-induced rat paw edema model, with doses of 200 mg/kg and 400 mg/kg showing moderate to high inhibition of inflammation compared to the control. In addition, acute toxicity studies conducted following OECD guidelines 423 revealed no signs of toxicity or mortality up to a dose of 2000 mg/kg, confirming the extract's safety for use. The findings suggest that Ailanthus excelsa leaf extract could serve as a promising natural alternative to conventional anti-inflammatory drugs, with reduced adverse effects. This invention offers a potential application in the development of plant-based pharmaceutical formulations for managing inflammation and related conditions.

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