

In Vivo Anti-Inflammatory Activity Of Pajanelia Longifoliabark Extracts

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Abstract:

Introduction:

Screening of anti-inflammatory and anti-diabetic properties of *Pajanelia longifolia* bark extract with the preliminary phytochemical profile of the extracts has been carried out in this part of work. The dried plant material was subject to extraction by using Soxhlet apparatus. The different solvent namely pet ether, chloroform and methanol were used for the extraction. All the crude extracts were subject for anti-inflammatory activity by using carrageenan-induced paw edema method. The toxicity and phytochemical screenings were done using the standard procedure. Different phytoconstituents namely Alkaloids, flavonoids, phytosterols, phenolic compounds, glycosides carbohydrates, proteins, gums and amino acids have been examined by standard phytochemical tests. The acute toxicity study of various extracts of *Pajanelia longifolia* was conducted at the dosage of 2000 mg kg⁻¹ body weight for anti-inflammatory activity. Among all the extracts, chloroform extract showed a significant decrease in the inflammation, when compared with the standard.

Conclusion:

The bark extracts of *Pajanelialongifolia* (300 mg/kg; p.o) administered 30 min before the injection of carrageenan caused a significant ($P<0.01$) and dose dependent

inhibition of increase in paw edema. In the carrageenan test, the maximum inhibition elicited by the chloroform extract (45.28%) was comparable to that of indomethacin (10 mg/kg; p.o; 67.92%). Pet-ether extract showed a negligible inhibition while methanol extract showed a moderate inhibition of increase in paw edema in rats when compared to standard Indomethacin.

Biography:

Dr. Latha K P received her Master of Science in Chemistry in 1989 from University of Mysore, Mysore, Karnataka, India, Later she received Ph.D. degree from the department of PG Studies and Research in Chemistry Kuvempu University in 2002. At present she is working as an Associate Professor in the department of PG Studies and Research in Chemistry Sahyadri Science College, Shimoga, Karnataka, India. The area of interest involved in the Medicinal Chemistry, Drug discovery, Synthetic organic Chemistry Bioinorganic Chemistry. She has published more than 60 papers in referred journals and she has guided 11 PhD's, 03 M.Phil's and presently 05 PhD students were working. She has participated and present her research findings several National and International Conference in various countries like USA, Dubai, Nepal, Singapore etc. She has organized one National and one International Conference founded by UGC and DST respectively. She has completed three projects from funded by UGC and she is the member of several universities committee. Her h-index is 10 and citations were 415.

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