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Research Article

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In vitro anti-inflammatory and anti-hypertensive activity of *Erinocarpusnimmonii* methanol leaf extract

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Abstract: Anti-inflammatory and antihypertensive potency of *Erinocarpusnimmonii* Grath a rare endangered and threatened species (RET) was investigated. Leaf extract was prepared by using methanol as solvent; extraction was carried out by cold method. The anti-inflammatory analysis was carried out with the help of hyaluronidase inhibition assay and antihypertensive activity was by using colorimetric, high-throughput assay, Indomethacin and Captopril is used as reference standards in assays respectively. The extract exhibited anti-inflammatory and antihypertensive potentialities in a concentration dependent manner. The methanol crude extract exhibited inhibition of 43.42 % of hyaluronidase enzyme and inhibition of 11.46 % of acetyl choline esterase enzyme at 100 µg. The crude extracts needs further detailed study towards mechanism of action, drug discovery and drug design.

Keywords: Anti-inflammatory, Antihypertensive, *Erinocarpusnimmonii*, high-throughput, hyaluronidase, acetyl choline esterase