Evaluation of *in vivo* Biological Activity Profile of Isoorientin

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Z. Naturforsch. **59 c**, 787–790 (2004); received May 24/June 30, 2004

Anti-nociceptive, anti-inflammatory and gastroprotective activities of the known *C*-glycosyl flavonoid, isoorientin, were studied in rats and mice. For the anti-nociceptive activity assessment the *p*-benzoquinone-induced writing test, for the anti-inflammatory activity the carrageenan-induced hind paw edema model in mice, and for the gastroprotective activity the EtOH-induced ulcerogenesis model in rats were used. Isoorientin was shown to possess significant anti-nociceptive and anti-inflammatory activities at 15 mg/kg and 30 mg/kg doses, without inducing any apparent acute toxicity as well as gastric damage. However, the compound did not possess any significant gastroprotective activity against EtOH-induced ulcerogenesis.

Key words: Anti-inflammatory Activity, Anti-nociceptive Activity, Gastroprotective Effect, Isoorientin