Anti-Inflammatory and Antinociceptive Activity of Flavonoids Isolated from *Viscum album* ssp. *album*

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*Viscum album* L. has been used in the indigenous systems of medicine for treatment of headache and some inflammatory diseases. In order to evaluate this information, antinociceptive and anti-inflammatory activities of the five flavonoids (5,7-dimethoxy naringenin or 4',6'-dimethoxy chalcononaringenin) derivatives, isolated from the ethyl acetate fraction of the extract from *V. album* ssp. *album*, were investigated, namely 5,7-dimethoxy-flavanone-4'-O-β-d-glucopyranoside (1), 2'-hydroxy-4',6'-dimethoxy-chalcone-4-O-β-d-glucopyranoside (2), 5,7-dimethoxy-flavanone-4'-O-[2''-O-(5''-O-trans-cinnamoyl)-β-d-apiofuranosyl]-β-d-glucopyranoside (3), 2'-hydroxy-4',6'-dimethoxy-chalcone-4-O-[2''-O-(5''-O-trans-cinnamoyl)-β-d-apiofuranosyl]-β-d-glucopyranoside (4), 5,7-dimethoxy-flavanone-4'-O-[β-d-apiofuranosyl(1→2)]-β-d-glucopyranoside (5). For the antinociceptive activity assessment the *p*-benzoquinone-induced writhing test and for the anti-inflammatory activity the carrageenan-induced hind paw edema model in mice were used. The ethyl acetate fraction in a dose of 250 mg/kg as well as compounds 2 and 5 in a 30 mg/kg dose were shown to possess remarkable antinociceptive and anti-inflammatory activities *per os* without inducing any apparent acute toxicity as well as gastric damage.

*Key words: Viscum album, Flavonoids, Anti-Inflammatory, Antinociceptive*