Anti-Inflammatory and Antinociceptive Activity of Coumarins from *Seseli gummiferum* subsp. *corymbosum* (Apiaceae)

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\( n \)-Hexane and ethyl acetate extracts as well as coumarin derivatives obtained from the \( n \)-hexane extract of the aerial parts of *Seseli gummiferum* Pall. ex Sm. subsp. *corymbosum* (Boiss. & Heldr.) P.H. Davis (Apiaceae) were evaluated *in vivo* for their anti-inflammatory and antinociceptive activities. The \( n \)-hexane and ethyl acetate extracts of the species were shown to possess significant inhibitory activity against the carrageenan-induced hind paw edema and \( p \)-benzoquinone-induced writhing models in mice. Among the isolated coumarin derivatives; (−)-(3'\( S \),4'\( S \))-3'-acetoxy-4'-isovaleryloxy-3',4'-dihydroseselin (1), (−)-(3'\( S \),4'\( S \))-3'-acetoxy-4'-angeloyloxy-3',4'-dihydroseselin (2), (+)-(3'\( S \),4'\( S \))-3'-hydroxy-4'-angeloyloxy-3',4'-dihydroseselin (D-laserpitin) (3), (−)-(3'\( S \),4'\( S \))-3'-angeloyloxy-4'-hydroxy-3',4'-dihydroseselin (4), and osthole (5), only the 3'-acetoxy derivatives 1 and 2 were found to possess potent antinociceptive and anti-inflammatory activities, *per os*, without inducing any apparent acute toxicity as well as gastric damage, while all other compounds and extracts were found to be ineffective in the TPA-induced mouse ear edema model assay.

*Key words:* Apiaceae, Anti-Inflammatory Activity, Antinociceptive Activity