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Pyranocoumarins from *Seseli gummiferum* subsp. *corymbosum* Growing in Turkey

of


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Abstract: *Seseli gummiferum* Pall. ex Sm. subsp. *corymbosum* (Boiss. & Heldr.) P.H. Davis (Syn: *S. corymbosum* Boiss. & Heldr.) (Umbelliferae) collected in southern Anatolia was investigated for the presence of coumarins. A new angular-type pyranocoumarin, corymbocoumarin (1), along with 5 known coumarins (2-6) were isolated from the aerial parts of this plant. Corymbocoumarin (1) was established to be (-)-(3'S,4'S)-3'-acetoxo-4'-isovaleryloxy-3',4'-dihydroseselin (1) and coumarins 2-6 were identified as (-)-(3'S,4'S)-3'-acetoxo-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), 3'-acetoxo-4'-isobutyloxy-3',4'-dihydroseselin (5) and osthole (6), respectively, by spectroscopic methods. The structural elucidation and absolute configurations were determined by chemical correlations with known compounds.

Key Words: Umbelliferae, corymbocoumarin, angular-type pyranocoumarin, *Seseli gummiferum* Pall. ex Sm. subsp. *corymbosum* (Boiss. & Heldr.) P.H. Davis.

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