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Novel Isocoumarin Derivatives from *Achlys triphylla* (Berberidaceae)

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Except for an old report suggesting the occurrence of coumarin, the chemical constituents of *Achlys triphylla* (J. E. Sm.) DC have not been carefully investigated. We are interesting in the chemical constituents of the plant to determine its chemotaxonomic relationships with other members of the subtribe Epimedinae, and to look for chemicals with medicinal properties. Purification of a methanol extract of *A. triphylla* resulted in isolation of three new isocoumarin derivatives. The structures were determined to be 7-geranyl-6,8-dihydroxy-3-(4′-hydroxyphenylethyl)isocoumarin for achlisocoumarin I, 7-geranyl-6,8-3-(4′-hydroxyphenylethenyl)isocoumarin for achlisocoumarin II, and 6,8-dihydroxy-3-(3′, 4′-dihydroxyphenylethenyl)isocoumarin for achlisocoumarin III, respectively.

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New Flavonol Glycoside from the Leaves of *Epimedium sempervirens*

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In succession to our earlier paper discussed the structure of a new flavonol glycoside, sempervirenoside A, with two acetyl groups on its sugar moieties, other glycosides, which helped to characterize the species chemotaxonomically, are described. A new flavonol glycoside named sempervirenoside B was isolated from a 70% MeOH extract of the leaves of *Epimedium semperviens*. The structure was established to be 3-*O*-〔β-D-xylopyranosyl-(1→3)-4-*O*-acetyl-α-L-rhamnopyranosyl〕-7-*O*-β-D-glucopyranosyl-3,5,7-trihydroxy-4′-methoxy-8-(3-methyl-2-butenyl) flavone or anhydroicaritin 3-*O*-β-D-xylopyranosyl-(1→3)-4-*O*-acetyl-α-L-rhamnospyranoside 7-*O*-β-D-glucopyranoside〕 by means of uv, fabms, eims, and ^{1}H, ^{13}C, ^{1}H-^{13}C, and ^{1}H-^{13}C long-range COSY nmr spectra.

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Isoflavones from Stems of *Euchresta horsfieldii*

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In the course of a chemotaxonomical study on the genus *Euchresta* (Leguminosae), the constiuents of *E. japonica*, and *E. formosana* were examined. In connection with two species, we investigated the chemical constituents of *E. horsfieldii* in Thailand. By repeated chromatography of a CH_2Cl_2 extract of the stems of *E. horsfieldii*, four new isoflavones were isolated. The structures were determined to be 5, 4′-dihydroxy-8-(3-hydroxy-3-methylbutyl)-〔6″,6″-dimethylpyrano (2″,3″:7,6)〕isoflavone for euchrnone b_6, 5,4′-dihydroxy-6-(3-hydroxy-3-methylbuthyl)-〔6″,6″-dimethylpyrano-(2″,3″:7,8)〕isoflavone for euchrenone b_7, 5, 4′-dihydroxy-8-(2-hydroxy-3-methyl-3-butenyl)-〔6″,6″-dimethylpyrano (2″,3″:7,6)〕isoflavone for euchrenone b_8, and 5,4′-dihydroxy-6-(2-hydroxy-3-methyl-3-butenyl)-〔6″,6″-dimethylpyrano〕(2″,3″;7,8)〕isoflavone for euchrenone b_9, respectively.