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Acylated Flavone Glycosides from Veronica pectinata var. glandulosa and V. persica

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Abstract: This study deals with the isolation of a new acylated 5,6,7,3',4'-pentahydroxy-flavone glycoside (1) and 3 known allose-containing acylated flavone glycosides (2-4) as well as a known flavone aglycone (5) from the aerial parts of Veronica pectinata var. glandulosa and V. persica. The structures of the isolated compounds were determined to be 3' -hydroxy-4'-O-methylscutellarein-7-O-[2"-O-α -L-rhamnopyranosyl-3"-O-(6""-O-acetyl-β -D-glucopyranosyl)]-β- D-glucopyranoside, named sarachoside (1), 4' -O-methylisoscutellarein-7-O-2"- O-(6"' -O-acetyl-β -D-allopyranosyl)-β -D-glucopyranoside (2), isos\-cutellarein-7-O-2"-O-(6"'-O-acetyl-β-D-allopyranosyl)-β- D-glucopyranoside (3), 3'-hydroxy-4'-O-methy\-lisoscutellarein-7-O-2" -O-(6"'-O-acetyl-β -D-allopyranosyl)-β -D-glucopyranoside (4) and 5,4'-dihydroxy-6,7,3' -trimethoxyflavone, named circilineol (5) by extensive 1-D and 2D-NMR spectroscopy. Sarachoside (1) exhibited potent radical scavenging activity against 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical.

Key Words: Veronica species, Scrophulariaceae, acylated flavone glycosides, sarachoside, free radical scavenging activity, DPPH

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