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Secondary Metabolites from Phlomis syriaca and Their Antioxidant Activities

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Abstract: An iridoid glucoside, lamiide (1); 4 phenylethanoid glycosides, acteoside (2), β-OH acteoside (3), leucosceptoside A (4) and samioside (5); a caffeic acid ester, chlorogenic acid (6); 2 flavone glucosides, luteolin-7-O-glucopyranoside (7) and chrysoeriol-7-O-glucopyranoside (8); and a flavanone aglycone, naringenin (9), were isolated from the aerial parts of Phlomis syriaca. The structures of the isolated compounds were elucidated by means of spectroscopic (UV, IR, 1D- and 2D-NMR, and FAB-MS) methods. Free radical scavenging activity of the isolated compounds was determined using the radical 2,2-diphenyl-1-picrylhydrazyl (DPPH), spectroscopically.

Key Words: Phlomis syriaca, Lamiaceae, Iridoid glucosides, Phenylethanoid glycosides, Flavonoids, Free radical scavenging activity, DPPH

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