

# Turkish Journal of Chemistry

Turkish Journal

Iridoid and Phenylpropanoid Glycosides from *Phlomis samia*, *P. monocephala* and *P. carica*

of

Chemistry

Funda Nuray YALÇIN, Tayfun ERSÖZ, Pınar AKBAY, İhsan ÇALIŞ  
Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy,  
TR-06100 Ankara-TURKEY


e-mail: funyal@hacettepe.edu.tr

Ali A. DÖNMEZ

Hacettepe University, Faculty of Science, Department of Biology,  
TR-06532 Ankara-TURKEY

Otto STICHER

ETH-Zurich, Department of Applied BioSciences, Institute of Pharmaceutical Sciences,  
Winterthurerstr. 190, CH-8057 Zürich-SWITZERLAND

 [Keywords](#)  
[Authors](#)



[chem@tubitak.gov.tr](mailto:chem@tubitak.gov.tr)

[Scientific Journals Home](#)  
[Page](#)

**Abstract:** From the aerial parts of *Phlomis samia* an iridoid glucoside, shanzhiside methylester (1), and three phenylethanoid glycosides, martynoside (2), 4''-O-acetylmartynoside (3) and samioside (4), were isolated. From the overground parts of *P. monocephala* two iridoid glucosides, lamiide (5) and ipolamiide (6), as well as three phenylethanoid glycosides, verbascoside (= acteoside) (7), forsythoside B (8), alyssonoside (9), and one lignan glucoside, syringaresinol 4'-O- $\beta$ -D-glucopyranoside (10), were isolated. From the aerial parts of *P. carica* one phenylethanoid glycoside, verbascoside (= acteoside) (7) and three phenylpropanoid monomeric glucosides, syringin (11), dihydrosyringin (12) and coniferin (13), were isolated. The structures of the isolated compounds were elucidated by means of spectroscopic evidence. Phenylethanoid glycosides isolated from the title plants (2-4,7-9) demonstrated scavenging properties toward the 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical in TLC autographic assay.

**Key Words:** *Phlomis samia*, *P. monocephala*, *P. carica*, Lamiaceae, iridoid glucosides, shanzhiside methylester, lamiide, ipolamiide, phenylethanoid glycosides, martynoside, 4''-O-acetylmartynoside, samioside, verbascoside, forsythoside B, alyssonoside, phenylpropanoid monomeric glucosides, syringin, dihydrosyringin, coniferin, lignan glucoside, syringaresinol-4'-O- $\beta$ -D-glucopyranoside, radical scavenging activity

---

Turk. J. Chem., **27**, (2003), 295-306.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.27, iss.3.](#)