Physocalycoside, a New Phenylethanoid Glycoside from *Phlomis physocalyx* Hub.-Mor.

Tayfun Ersöz^{a,*}, Kalina Iv. Alipieva^b, Funda Nuray Yalçın^a, Pınar Akbay^a, Nedialka Handijeva^b, Ali A. Dönmez^c, Simeon Popov^b, and İhsan Calıs^a

^a Department of Pharmacognosy, Faculty of Pharmacy, Hacettepe University TR 06100, Ankara, Turkey. Fax: +90-312-3114777; E-mail: tersoz@hacettepe.edu.tr

b Institute of Organic Chemistry with Center of Phytochemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria
c Department of Biology, Faculty of Science, Hacettepe University TR 06532, Ankara, Turkey

* Author for correspondence and reprint requests

Activity

Z. Naturforsch. **58c**, 471–476 (2003); received December 12, 2002/February 10, 2003

ethoxy-*O*-[α-L-rhamnopyranosyl-(1→2)-α-L-rhamnopyranosyl-(1→3)]-4-*O*-feruloyl-[β-D-glucopyranosyl-(1→6)]-β-D-glucopyranoside, on the basis of spectroscopic evidence. In addition, one known iridoid glucoside, lamiide (1) and five known phenylethanoid glycosides, wiedemannioside C (3), verbascoside (= acteoside) (4), leucosceptoside A (5), martynoside (6), and forsythoside B (7) were also characterized. Compounds 2–7 demonstrated radical scavenging properties towards the 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical.

Kev words: Phlomis physocalyx. Iridoid and Phenylethanoid Glycosides. Radical Scavenging

A new phenylethanoid tetraglycoside, physocalycoside (2), was isolated from the aerial parts of *Phlomis physocalyx*. Its structure was identified as 3-hydroxy-4-methoxy-β-phenyl-