## **Turkish Journal of Chemistry**

**Turkish Journal** Naphthoquinones from the Roots of Onosma argentatum Hub.-Mor. (Boraginaceae) Ufuk ÖZGEN of Department of Pharmacognosy, Faculty of Pharmacy, Atatürk University, 25240 Erzurum-TURKEY Chemistry e-mail: uozgen@atauni.edu.tr Maksut COŞKUN Department of Pharmaceutical Botany, Faculty of Pharmacy, Ankara University, 06100 Tandoğan, Ankara-TURKEY **Keywords** Cavit KAZAZ, Hasan SECEN Authors Department of Chemistry, Faculty of Arts and Science, Atatürk University, 25240 Erzurum-TURKEY Abstract: Onosma argentatum Hub.-Mor. is an endemic species growing in Turkey. In this study, the roots of O. argentatum were extracted with n-hexane-dichloromethane (1:1). The extract was separated on a silica gel column eluting with n-hexane-ethyl acetate by gradient elution. New naphthoquinone compounds (3 known and 1 new) were isolated and their structures were elucidated by spectroscopic methods as deoxyshikonin, acetyl shikonin, 3-hydroxy-isovaleryl shikonin, and 5,8-O-dimethyl acetyl chem@tubitak.gov.tr shikonin. Scientific Journals Home Key Words: Onosma argentatum, natural naphthoquinones, shikonin derivatives, Boraginaceae, 5,8-O-Page dimethyl acetyl shikonin Turk. J. Chem., 28, (2004), 451-454.

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