

Terpenoids of *Tamarix hispida*

^aN.A. Sultanova, ^bT. Makhmoor, ^aZh.A. Abilov, ^bAtta-ur-Rahman

^b M. Iqbal Choudhary.

^a*Al-Farabi Kazakh National University, Almaty, Kazakhstan,*
fax: (3272) 92-37-31, e-mail: abilov@KazSu.kz

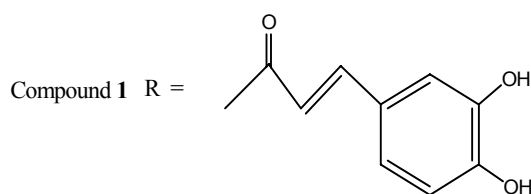
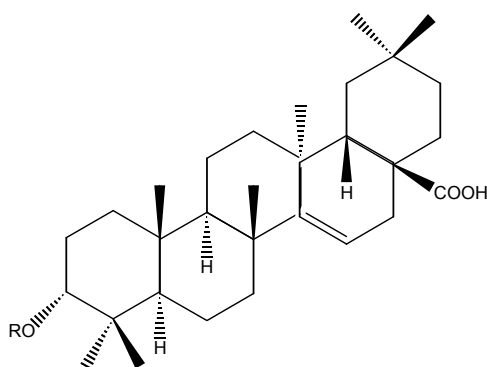
^b*H.E.J Research Institute of Chemistry, International Center for Chemical Sciences,*
University of Karachi, Karachi-75270, Pakistan

Various species of genus *Tamarix* are reported as pharmacological potency and promoted us to investigate the chemistry. Last years reported the isolation and characterization of some pentacyclic triterpenoids from four species of *Tamarix*: *T. aphylla*, *T. chenensis*, *T. gallica* and *T. troupii*.

A new pentacyclic triterpenoid - 3 α -[3'', 4''-dihydroxy-trans-cinnamoyl]-oxy-D-fridoolean-14-en-28-oic acid (**1**) was isolated together with three known phytol (**2**), β -sitosterol (**3**) and β -carotin (**4**) compounds from aerial part of *Tamarix hispida* Willd (family *Tamaricaceae*). Compound **1a** obtained after hydrolyzes of **1** has not been reported early.

Their structures were determinate by using ¹H, ¹³C NMR, 2D NMR ¹H-¹³C long-range shift correlation and mass spectroscopy techniques.

Compound **1** was found as potent antioxidant and showed significant inhibitory activity against propylendopeptidase (PEP). The PEP inhibitory activity has not been reported early for triterpenoids.



Compound **1a** R = H