

Cytotoxic Oleanane-type Triterpenen Saponins with N-acetyl Sugar from *Albizia inundata*

Huaping Zhang,¹ Karumanchi V. Rao,¹ Abbas Samadi,² Xiaoqin Tong,¹ Juan Jose Araya Barrantes,¹ , Barbara N. Timmermann,^{3,1} Mark S. Cohen²

¹ Department of Medicinal Chemistry, University of Kansas, Lawrence, KS, USA ² Department of Surgery, University of Kansas Medical Center, Kansas City, KS, USA ³ Corresponding author, Phone: +1(785)864-4844 · Fax: +1(785)864-5326 · Email: btimmer@ku.edu.

Abstract

Bioassay-guided fractionation of a CH₂Cl₂-MeOH extract of the aerial part of *Albizia inundata*, collected in Argentina, resulted in the isolation of two new oleanane-type triterpene saponins with N-acetyl sugar (**1**, **2**) and seven known saponins (3-9). Their structures were established on the basis of extensive 2D NMR (HSQC, COSY or DQF-COSY, TOCSY, HMBC), ESIMS and chemical methods. Saponins **1-4** showed cytotoxicity against the in JMAR, MDA 1986, UM-SCC-2 and JHU011 human head and neck squamous cells using the MTS assay.