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Title: Acylated pregnane glycosides from *Caralluma quadrangula***Author(s):** Abdallah, HM (Abdallah, Hossam M.); Osman, AMM (Osman, Abdel-Moneim M.); Almehdar, H (Almehdar, Hussein); Abdel-Sattar, E (Abdel-Sattar, Essam)**Source:** PHYTOCHEMISTRY Volume: 88 Pages: 54-60 DOI: 10.1016/j.phytochem.2012.12.005 Published: APR 2013**Times Cited in Web of Science Core Collection:** 7**Total Times Cited:** 7**Usage Count (Last 180 days):** 1**Usage Count (Since 2013):** 20**Cited Reference Count:** 29

Abstract: In a previous study, the methanolic extract as well as the chloroform fraction of the aerial parts of *Caralluma quadrangula* (Forssk.) N.E.Br. indigenous to Saudi Arabia showed significant in vitro cytotoxic activity against breast cancer (MCF7) cell line. In a biologically-guided fractionation approach, four acylated pregnane glycosides were isolated from the chloroform fraction of *C. quadrangula*. The structures of the isolated compounds were elucidated by the analysis of their MS and NMR data. The compounds were identified as 12,20-di-O-benzoylboucerin 3-O-beta-D-digitoxopyranosyl-(1 -> 4)-beta-D-canaropyranosyl-(1 -> 4)-beta-D-cymaropyranoside (1), 12,20-di-O-benzoylboucerin 3-O-beta-D-cymaropyranosyl-(1 -> 4)-beta-D-canaropyranosyl-(1 -> 4)-beta-D-cymaropyranoside (2), 12,20-di-O-benzoylboucerin 3-O-beta-D-glucopyranosyl-(1 -> 4)-beta-D-digitoxopyranosyl-(1 -> 4)-beta-D-canaropyranosyl-(1 -> 4)-beta-D-cymaropyranoside (3) and 12,20-di-O-benzoyl-3 beta,5 alpha,12 beta,14 beta,20-pentahydroxy-(20R)-pregn-6-ene 3-O-beta-D-glucopyranosyl-(1 -> 4)-beta-D-digitoxopyranosyl-(1 -> 4)-beta-D-canaropyranosyl-(1 -> 4)-beta-D-cymaropyranoside (4). The isolated compounds were tested for their cytotoxic activity against breast cancer (MCF7) cell line. (C) 2012 Elsevier Ltd, All rights reserved.

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