Triterpene acids from the leaves of Planchonella duclitan (Blanco) Bakhuizan

徐鳳麟;李宗徽
Lee TH;Juang SH;Hsu FL;Wu CY

Abstract

From the methanolic extract of the leaves of Planchonella duclitan, 2α,3α,19α,23-tetraliydroxy-13,27-cyclours-11-en-28-oic acid (1), myrianthic acid (2), 2-hydroxyursolic acid (3), ursolic acid (4), pomolic acid (5), rotundic acid (6), and jacoumaric acid (7) were isolated, and their structures were elucidated on the basis of their spectroscopic analysis. Among them, compound 1 was a new cyclopropyl ursane-type triterpene acid. Additionally, compounds 4 and 7 showed significant cytotoxicity toward human colorectal carcinoma cell line HT29 and human breast carcinoma cell line MCF-7 with IC50 values ranging from 5.8±1.4 to 6.5±1.9 μM.