

New Cytotoxic Briaran Diterpenes from the Formosan

Gorgonian Briareum sp.

吳姿樺

Sheu JH;Sung PJ;Huang LH;Lee SF;Wu TH;Chang BY;Duh CY;Fang LS;Soong K and
Lee TJ

Abstract

Three new briaran diterpenes, 2 β -acetoxy-2-(debutyryloxy)stecholide E (3), 9-deacetylstylatulide lactone (4), and 4 β -acetoxy-9-deacetylstylatulide lactone (5), and two known diterpenes, brianthein W (1) and 9-deacetylbriareolide H (2), have been isolated from a Briareum sp. of gorgonian. The structures and relative stereochemistry of these compounds were determined by spectroscopic and chemical methods. Diterpenes 2–4 and the corresponding 9-acetyl derivatives 6, 7, and 12 exhibited cytotoxicity toward various cancer cell lines.