

A new bioactive cembranoid sarcophytonolide V from Bornean soft coral genus

Sarcophyton

ABSTRACT

A new cembranolide diterpene, sarcophytonolide V (**1**), along with 6 known compounds, isosarcophytonolide D (**2**), (4*Z*,8*S*^{*},9*R*^{*},12*E*,14*E*) -9-hydroxy-1-(prop-1-en-2-yl) -8,12-dimethyl-oxabicyclo[9.3.2]-hexadeca-4,12,14-trien-18-one (**3**), (7*E*,11*E*)-3,4-epoxy-7,11,15-cembratriene (**4**), (1*S*^{*},3*S*^{*},4*S*^{*},7*E*,11*E*)-3,4-epoxy-13-oxo-7,11,15-cembratriene (**5**), (-)-eunicenone (**6**), and 2-[(*E,E,E*)-7',8'-epoxy-4',8',12'-trimethylcyclotetradeca-1',3',11'-trienyl]propan-2-ol (**7**) were isolated from the Bornean soft coral *Sarcophyton* sp. Their structures were elucidated based on spectroscopic data, such as nuclear magnetic resonance (NMR) and high resolution electron spray ionization mass spectroscopy (HRESIMS). These compounds were evaluated for their biological activity against marine pathogenic fungi.