

Neoriepentaol and nangenyne, halogenated diterpenoid and C₁₅-acetogenin from red alga *Laurencia nangii* Masuda collected in Borneo [2018]

ABSTRACT

The red algal genus *Laurencia* is a prolific producer of halogenated secondary metabolites. A new tricyclic dibrominated diterpenoid, neoriepentaol (1) and chlorinated C₁₅-acetogenin, nangenyne (2), along with two known terpenoids, neorietetraol (3) and dactyloxene A (4), were isolated from methanol crude extract of red alga *Laurencia nangii*. The structures were established based on one- and two-dimensional nuclear magnetic resonance (NMR), Fourier-transform infrared (FTIR), and high-resolution electrospray ionization mass spectrometry (HRESIMS) data. These compounds were screened against seven species of marine fungi. Compounds 1–3 exhibited activity against *Lagenidium thermophilum* and *Haliphthoros sabahensis*. Potent activity was showed by 1 with *L. thermophilum* hyphal inhibition at MIC value of 12.5 µg mL⁻¹ and hyphal motility was observed at 50 µg mL⁻¹ within 24 h.