Cappermacrenes A and B, Bioactive Secondary Metabolites from a Bornean Soft Coral, Capnella sp.

Abstract

Two new bicyclogermacrenes, capgermacrenes A ($\mathbf{1}$) and B ($\mathbf{2}$), were isolated with two known compounds, palustrol ($\mathbf{3}$) and litseagermacrane ($\mathbf{4}$), from a population of Bornean soft coral *Capnella* sp. The structures of these metabolites were elucidated based on spectroscopic data. Compound $\mathbf{1}$ was found to inhibit the accumulation of the LPS-induced pro-inflammatory IL-1 β and NO production by down-regulating the expression of iNOS protein in RAW 264.7 macrophages.