

Studies on the Natural Products from the Cultured Soft Corals *Sinularia brassica* and *Sarcophyton glaucum*

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Abstract

In order to search for bioactive compounds, we have studied the chemical constituents from the organic extracts of two soft corals including *Sinularia brassica* and *Sarcophyton glaucum*. This study had led to the isolation of seventeen natural compounds **1**–**17**, including 14 new compounds, sinubrasolides A–N (**1**–**14**) from *Sinularia brassica*, and two novel biscembranoids bisglaucumlides L and M (**15** and **16**) along with one known biscembranoid ximaolide A (**17**) from *Sarcophyton glaucum*. The structures of the new metabolites were determined by extensive spectroscopic analyses. The structure of **1** was further supported by a single-crystal X-ray diffraction analysis. Compounds **15** and **16** should be obtained by Diels–Alder reaction of two cembranoid units. Furthermore, the cytotoxicity of compounds **1**–**17** against a limited panel of cancer lines was also determined.

