

Halogenated metabolites with antibacterial activity from the Okinawan Laurencia species. Phytochemistry

Abstrak

The chemical compositions of five species of the red algal genus *Laurencia* from coastal waters of Okinawa Prefecture, Japan, have been investigated. A halogenated C(15) acetogenin, (12E)-lembyne-A, was isolated from *L. mariannensis*, and a halogenated sesquiterpene, (6R,9R,10S)-10-bromo-9-hydroxy-chamigra-2,7(14)-diene, was first found from *L. majuscula* as a naturally occurring compound. *Laurencia nidifica* yielded previously known laurinterol and isolaurinterol. Samples of *L. cartilaginea* and *L. concreta* afforded no halogenated metabolites. The structures of these halogenated metabolites as well as their antibacterial activity against some marine bacteria are reported.