

# Plecomarcolide Analogues Produced by *Streptomyces* sp. GIC10-1 Isolated from a Marine Sponge *Theonella* sp.

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Twelve plecomacrolide analogues, including three new 16-membered diene macrolides, bafilomycins M–O (1–3), along with nine known compounds JBIR-100 (4), bafilomycin K (5), bafilomycin C1 (6), makinolide B (7), bafilomycin D (8), elaiophylin (9) 11,11'-*O*-dimethylelaiophylin (10), 2-methylelaiophylin (11), 2-methy-11,11'-*O*-dimethylelaiophylin (12), and a polyether metabolite, nigericin (13), were produced from *Streptomyces* sp. GIC10-1. This bacterium was isolated from a marine sponge *Theonella* sp. The structures of 1–13 were established by spectroscopic methods and by comparison the spectral data with known analogues. Compounds 1–13 were found to exhibit significant cytotoxicity toward MOLT-4, K-562, SUPT-1 and LNCaP tumor cells.



*Theonella* sp.



*Streptomyces* sp.  
GIC10-1

