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Antibacterial Activities of Meroindenon and Merochlorins C, E and F, produced by a Marine-Derived Bacterium, Streptomyces sp.

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Since the outbreak of antibiotic-resistant bacteria, the effectiveness of antibiotics is facing serious clinical concerns over the last decades. Natural products have been crucial sources of antibacterial agents historically, and they are still worthy as they provide novel compounds with the potent antibacterial activity. Especially, marine actinomycetes are recognized as prolific sources of structurally unprecedented and biologically active secondary metabolites. In this study, antibacterial activities of four meroterpenoids, meroindenon (1) and merochlorins C (2), E (3) and F (4), isolated from a marine Streptomyces, CNH-189, were investigated using broth microdilution methods. Compounds 3 and 4 displayed strong antibacterial activities against Bacillus subtilis, Kocuria rhizophila, and Staphylococcus aureus, with MIC values of 1–2 μg/mL.

Biography:

Sojeong graduated from Ewha Womans University in 2018 with a Bachelor of Life Science. She is a Master's degree student in Natural Products and Research Labaratory at Ewha Womans University. She is focusing her research efforts on the isolation and identification of novel bioactive natural products from marine microorganisms.

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