

A family of multicyclic indolosesquiterpenes from a bacterial endophyte.

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Abstract

Three novel indolosesquiterpenes, xiamycin B (1b), indospene (2), and sespenine (3), along with the known xiamycin A (1a) were isolated from the culture broth of *Streptomyces* sp. HKI0595, a bacterial endophyte of the widespread mangrove tree *Kandelia candel*. Agar diffusion assays revealed moderate to strong antimicrobial activities against several bacteria, including methicillin-resistant *Staphylococcus aureus* and vancomycin-resistant *Enterococcus faecalis*, while no cytotoxicity against human tumor cell lines was observed. Together with the previously reported oridamycin, the endophyte metabolites represent the first indolosesquiterpenes isolated from prokaryotes.

Beteiligte Forschungseinheiten

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