Xyloneside A: A new glycosylated incisterol derivative from *Xylaria* sp. FB.

Lee SR, Kreuzenbeck NB, Jang M, Oh T, Ko SK, Ahn JS, Beemelmanns C, Kim KH (2020) Xyloneside A: A new glycosylated incisterol derivative from *Xylaria* sp. FB. *ChemBioChem* 21(16), 2253-2258.

Abstract

Xylaria species are prolific natural product producers. Here, we report the characterization of a new glycosylated incisterol derivative, called xyloneside A (1) and two known lignans (2 and 3) from the ascomycetous Xylaria sp. FB. The structure of xyloneside A (1) was determined by 1D and 2D nuclear magnetic resonance spectra, high-resolution electrospray ionization mass spectrometry and electronic circular dichroism measurements. Xyloneside A (1) is composed of a 1,2,3,4,5,10,19-heptanorergosterane skeleton and a β- D-mannopyranose moiety. This is the first report of an incisterol derivative from an Ascomycete. The biological effects of the isolated metabolites on cytotoxicity, autophagy, cell-migration, and angiogenesis were evaluated.

Beteiligte Forschungseinheiten

Chemische Biologie der Mikroben-Wirt Interaktionen Christine Beemelmanns Mehr erfahren

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Sekundärmetabolismus von Insekten-assoziierten Mikroben

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