Trichocladinols A–C, Cytotoxic Metabolites from a Cordyceps-Colonizing Ascomycete Trichocladium opacum

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Details

Abstract

Trichocladinols A–C (1–3), three new metabolites, and the known massarigenin A (4), have been isolated from cultures of a *Cordyceps*-colonizing ascomycete *Trichocladium opacum*. Their structures were elucidated by NMR spectroscopy and X-ray crystallography. The absolute configuration of 1 was assigned by using the modified Mosher method and that of 3 was determined by X-ray crystallographic analysis of its (*S*)-MTPA ester. Compounds 1–3 showed modest cytotoxic effects against the human tumor cell lines HeLa and MCF-7. Structurally, compounds 1 and 2 possess a previously undescribed 2,9-dioxatricyclo[5.2.1.$0^{3,8}$]dec-4-ene skeleton.

Involved units

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Details

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