

Twofold polyketide branching by a stereoselective enzymatic Michael addition

Heine D, Sundaram S, Bretschneider T, Hertweck C (2015) Twofold polyketide branching by a stereoselective enzymatic Michael addition *Chem Commun (Camb)*. 51(48), 9872-9875.

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Abstract

The versatility of the branching module of the rhizoxin polyketide synthase was tested in an in vitro enzyme assay with a polyketide mimic and branched (di)methylmalonyl-CoA extender units. Comparison of the products with synthetic reference compounds revealed that the module is able to stereoselectively introduce two branches in one step by a Michael addition-lactonisation sequence, thus expanding the scope of previously studied PKS systems.

Beteiligte Forschungseinheiten

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doi: 10.1039/c5cc03085d

PMID: 25994388