Bioinspired total synthesis of sespenine.

Sun Y, Chen P, Zhang D, Baunach M, Hertweck C, Li A (2014) Bioinspired total synthesis of sespenine. *Angew Chem Int Ed Engl* 53(34), 9012-9016.

Details

PubMed

Abstract

The first total synthesis of sespenine, a rare indole sesquiterpenoid from a mangrove endophyte, has been accomplished. A bioinspired aza-Prins/Friedel-Crafts/retro Friedel-Crafts cascade reaction assembles the bridged tetrahydroquinoline core. Further investigations on the aza-Prins cyclization imply that the C3 configuration of the hydroxyindolenine intermediate is crucial to the biosynthesis of sespenine and its congener xiamycin A.

Beteiligte Forschungseinheiten

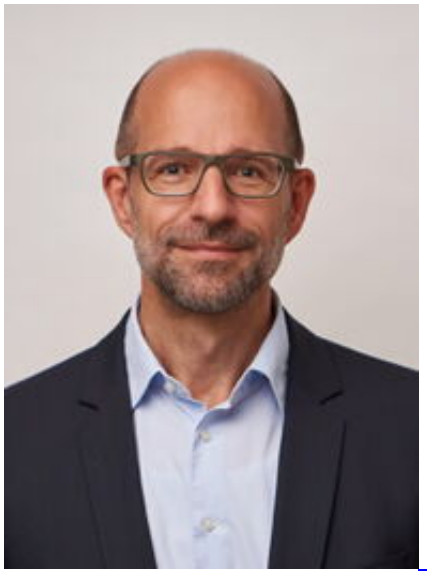
Biomolekulare Chemie Christian Hertweck Mehr erfahren

Leibniz-HKI-Autor*innen



Martin Baunach

Details



Christian Hertweck

Details

Identifier

doi: 10.1002/anie.201404191

PMID: 24962149