Naphthalenones and isocoumarins from a Costa Rican fungus Xylariaceae sp. CR1546C

Kim KH, Beemelmanns C, Murillo C, Guillén A, Umaña L, Tamayo-Castillo G., Kim SN, Clardy J, Cao, S (2014) Naphthalenones and isocoumarins from a Costa Rican fungus Xylariaceae sp. CR1546C *Journal of Chemical Research* 38(12), 722-725.

Details

Abstract

A new naphthalenone, (R)-4,6,8-trihydroxy-3,4-dihydro-1(2H)-naphthalenone and a new isocoumarin, 6,8-dihydroxy-(3R)-(2-oxopropyl)-3,4-dihydroisocoumarin, together with eight related known compounds were isolated from the endolichenic fungal species, CR1546C from Costa Rican lichen Sticta fuliginosa (Lobariaceae). Their structures were elucidated by spectroscopic methods, including extensive 1D- and 2D-NMR techniques and chemical methods. All of the isolated compounds exhibited moderate antifungal activity against the yeast Candida albicans.

Beteiligte Forschungseinheiten

Chemische Biologie der Mikroben-Wirt Interaktionen Christine Beemelmanns Mehr erfahren

Leibniz-HKI-Autor*innen



Christine Beemelmanns

Details

Themenfelder

Sekundärmetabolismus von Insekten-assoziierten Mikroben

Identifier

doi: 10.3184/174751914X14175406270662