

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

Kim KH, Beemelmans 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.

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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*.

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