Azacoccones F-H, new flavipin-derived alkaloids from an endophytic fungus Epicoccum nigrum MK214079

Publons ID	35735687
Wos ID	WOS:000580427700044
Doi	10.1016/j.fitote.2020.104698
Title	Azacoccones F-H, new flavipin-derived alkaloids from an endophytic fungus Epicoccum nigrum MK214079
First Author	Harwoko, Harwoko; Lee, Jungho; Hartmann, Rudolf;
Last Author	Proksch, Peter
Authors	Harwoko, H; Lee, J; Hartmann, R; Mandi, A; Kurtan, T; Muller, WEG; Feldbrugge, M; Kalscheuer, R; Ancheeva, E; Daletos, G; Frank, M; Liu, Z; Proksch, P;
Publish Date	OCT 2020
Journal Name	FITOTERAPIA
Citation	3
Abstract	Three new flavipin-derived alkaloids, azacoccones F-H (1-3), along with six known compounds (4-9) were isolated from the endophytic fungus Epicoccum nigrum MK214079 associated with leaves of Salix sp. The structures of the new compounds were established by analysis of their 1D/2D nuclear magnetic resonance (NMR) and high-resolution electrospray ionization mass spectroscopy (HRESIMS) data. The absolute configuration of azacoccones F-H (1-3) was determined by comparison of experimental electronic circular dichroism (ECD) data with reported ones and biogenetic considerations. Epicocconigrone A (4), epipyrone A (5), and epicoccolide B (6) exhibited moderate antibacterial activity against Staphylococcus aureus ATCC 29213 with minimal inhibitory concentration (MIC) values ranging from 25 to 50 mu M. Furthermore, epipyrone A (5) and epicoccamide A (7) displayed mild antifungal activity against Ustilago maydis AB33 with MIC values of 1.6 and 1.8 mM, respectively. Epicorazine A (8) showed pronounced cytotoxicity against the L5178Y mouse lymphoma cell line with an IC50 value of 1.3 mu M.
Publish Type	Journal
Publish Year	2020
Page Begin	(not set)
Page End	(not set)
Issn	0367-326X
Eissn	1873-6971
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000580427700044
Author	Dr.rer.nat. Apt HARWOKO, S.Farm, M.Sc.