



Aegyptolidines A and B: New pyrrolidine alkaloids from the fungus *Aspergillus aegyptiacus*

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Abstract:

Chemical examination of the fungus *Aspergillus aegyptiacus* isolated from cotton textile yielded two new pyrrolidine alkaloids: aegyptolidine A (3) and aegyptolidine B (4), together with two known ophiobolin sesterterpenoids: (1)-5-deoxovaricocolin (1) and variculanol (2). Compound 1 is reported for the first time from a natural source. The structures of the isolated compounds were unambiguously elucidated on the basis of extensive spectroscopic data analysis (1D (¹H and ¹³C) and 2D (¹H-¹H COSY, HMQC, HMBC, and NOESY)NMR, MS, IR, and UV) and comparison with literature data. Compounds 1 and 2 showed moderate cytotoxic activity against murine lymphoma cancer cell line L5178Y with ED₅₀ 7.6 and 8.1 mg/mL, respectively.

Keywords:

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