

Product Data Sheet

Product Name: Terpendole I

Cat. No.: GC46006

Chemical Properties

Cas. No. 167612-17-1

SMILES C[C@]12[C@@](CC3=C2NC4=C3C=CC=C4)([H])CC[C@@]5(O)[C@]67[C@](O[C@H](C(C)(O)C)[C@@H](O)[C@H]6O7)([H])CC[C@@]51C

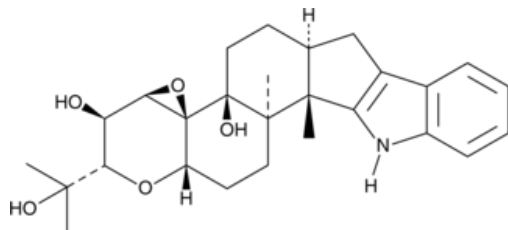
Formula C₂₇H₃₅NO₅ M.Wt 453.6

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Terpendole I is a fungal metabolite that has been found in *A. yamanashiensis*.¹ It is a weak inhibitor of acyl-coenzyme A:cholesterol acyltransferase (ACAT; IC₅₀ = 145 μM) and is active against the bacteria *B. cereus* and *B. subtilis* (MICs = 100 μg/ml for both) but not *S. aureus*, *P. aeruginosa*, or *K. pneumoniae* (MICs = >200 μg/ml for all) or the fungus *C. albicans* (MIC = 200 μg/ml).^{1,2} It is cytotoxic to HeLa cells with an IC₅₀ value of 52.6 μM.³

[1. Tomoda, H., Tabata, N., Yang, D.-J., et al. Terpendoles, novel ACAT inhibitors produced by *Albophoma yamanashiensis*. III. Production, isolation and structure elucidation of new components. *J. Antibiot. (Tokyo)* 48(8), 793-804 (1995).|2. Zhao, J.-C., Wang, Y.-L., Zhang, T.-Y., et al. Indole diterpenoids from the endophytic fungus *Drechmeria* sp. as natural antimicrobial agents. *Phytochemistry* 148, 21-28 (2018).|3. Nagumo, Y., Motoyama, T., Hayashi, T., et al. Structure-activity relationships of terpendole E and its natural derivatives. *ChemistrySelect* 2(4), 1533-1536 (2017).

Caution: Product has not been fully validated for medical applications. For research use only.

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