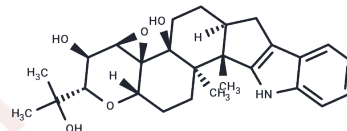


Terpendole I

Chemical Properties

CAS No. :	167612-17-1
Formula:	C ₂₇ H ₃₅ N ₅ O
Molecular Weight:	453.579
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Terpendole I is a fungal metabolite that has been found in <i>A. yamanashiensis</i> . ¹ It is a weak inhibitor of acyl-coenzyme A:cholesterol acyltransferase (ACAT; IC ₅₀ = 145 μM) and is active against the bacteria <i>B. cereus</i> and <i>B. subtilis</i> (MICs = 100 μg/ml for both) but not <i>S. aureus</i> , <i>P. aeruginosa</i> , or <i>K. pneumoniae</i> (MICs = >200 μg/ml for all) or the fungus <i>C. albicans</i> (MIC = 200 μg/ml). ^{1,2} It is cytotoxic to HeLa cells with an IC ₅₀ value of 52.6 μM. ³
Targets(IC50)	Others,Endogenous Metabolite,Acyltransferase

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2047 mL	11.0234 mL	22.0468 mL
5 mM	0.4409 mL	2.2047 mL	4.4094 mL
10 mM	0.2205 mL	1.1023 mL	2.2047 mL
50 mM	0.0441 mL	0.2205 mL	0.4409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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).
- 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).
- Nagumo, Y., Motoyama, T., Hayashi, T., et al. Structure-activity relationships of terpendole E and its natural derivatives. *ChemistrySelect* 2(4), 1533-1536 (2017).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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