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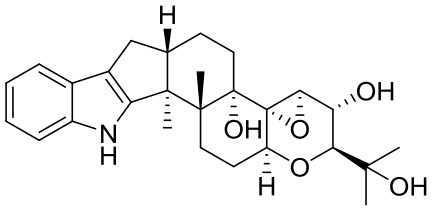
PRODUCT DATA SHEET

Terpendole I

Code No.: **BIA-T1828**

Pack sizes: **1 mg, 5 mg**



Synonyms : TerI

Specifications

CAS #	:	**167612-17-1**
Molecular Formula	:	**$C_{27}H_{35}NO_5$**
Molecular Weight	:	**453.6**
Source	:	**Undescribed fungus**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Terpendole I is a polar analogue of a rare family of indolediterpenes isolated from Albophoma yamanashiensis, first reported by Omura and colleagues at the Kitasato Institute, Japan in 1995. Terpendole I is a weak inhibitor of ACAT (acyl-CoA:cholesterol acyltransferase). The biosynthetic gene cluster coding for production of terpendoles was identified in 2012.

References

1. Materials for the fungus flora of Japan (47). Kobayashi T. et al., Mycoscience 1994, 35, 399.
2. Terpendoles, novel ACAT inhibitors produced by Albophoma yamanashiensis. III. Production, isolation and structure elucidation of new components. Tomoda H. et al., J. Antibiot. 1995, 48, 793.
3. Terpendole E, a kinesin Eg5 inhibitor, is a key biosynthetic intermediate of indole-diterpenes in the producing fungus Chaunopycnis alba. Motoyama T. et al., Chem. Biol. 2012, 19, 1611.

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