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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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trans-Nerolidol

Cat. No.: HY-N6635

CAS No.: 40716-66-3

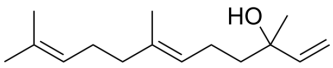
Molecular Formula: $C_{15}H_{26}O$

Molecular Weight: 222.37

Target: Fungal

Pathway: Anti-infection

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (449.70 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4970 mL	22.4850 mL	44.9701 mL
	5 mM	0.8994 mL	4.4970 mL	8.9940 mL
	10 mM	0.4497 mL	2.2485 mL	4.4970 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

trans-Nerolidol is a sesquiterpene alcohol. It can be isolated from f aerial parts of Warionia saharae ex Benth. trans-Nerolidol improves the anti-proliferative effect of Doxorubicin (HY-15142A) against intestinal cancer cells in vitro. trans-Nerolidol also has anti-fungal activity[1][2].

REFERENCES

[1]. Hanušová V, et al. The effects of β-caryophyllene oxide and trans-nerolidol on the efficacy of doxorubicin in breast cancer cells and breast tumor-bearing mice. Biomed Pharmacother. 2017 Nov;95:828-836.

[2]. Chan WK, et al. Nerolidol: A Sesquiterpene Alcohol with Multi-Faceted Pharmacological and Biological Activities. Molecules. 2016 Apr 28;21(5):529.

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