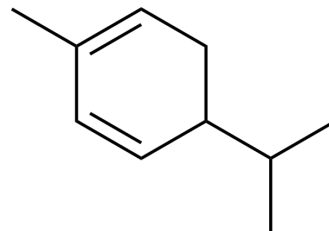


α-Phellandrene

Cat. No.:	HY-121615
CAS No.:	99-83-2
Molecular Formula:	C ₁₀ H ₁₆
Molecular Weight:	136.23
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (18.35 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

α-Phellandrene (alpha-Phellandrene) has antifungal activity. α-Phellandrene significantly inhibits the hyphal growth of *P. cyclopium*, destroys their cell membrane integrity and causes leakage of cellular components^[1].

REFERENCES

[1]. Zhang JH, et al. Anti-fungal activity, mechanism studies on α-Phellandrene and Nonanal against *Penicillium cyclopium*. *Bot Stud.* 2017 Dec;58(1):13.

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

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