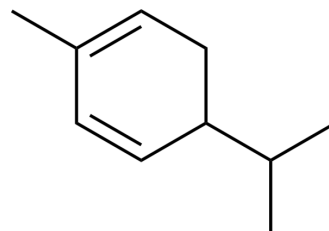


α-Phellandrene

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:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



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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