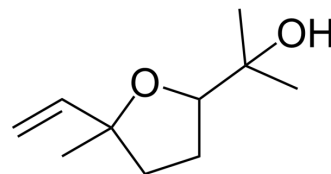


Linalool oxide

Cat. No.:	HY-N9502		
CAS No.:	60047-17-8		
Molecular Formula:	C ₁₀ H ₁₈ O ₂		
Molecular Weight:	170.25		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (587.37 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.8737 mL	29.3686 mL	58.7372 mL
	5 mM	1.1747 mL	5.8737 mL	11.7474 mL
	10 mM	0.5874 mL	2.9369 mL	5.8737 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (14.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Linalool oxide is a secondary metabolite in elongating wheat plants with antinociceptive and anticonvulsant effects. Linalool oxide shows anxiolytic activity^{[1][2][3]}.

REFERENCES

[1]. Souto-Maior FN, et al. Antinociceptive and anticonvulsant effects of the monoterpene linalool oxide. Pharm Biol. 2017 Dec;55(1):63-67.

[2]. Souto-Maior FN, et al. Anxiolytic-like effects of inhaled linalool oxide in experimental mouse anxiety models. *Pharmacol Biochem Behav.* 2011 Dec;100(2):259-63.

[3]. Piesik D, et al. Mechanically-injured wheat plants release greater amounts of the secondary metabolites linalool and linalool oxide[J]. *Journal of Plant Protection Research*, 2006: 29-39-29-39.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA