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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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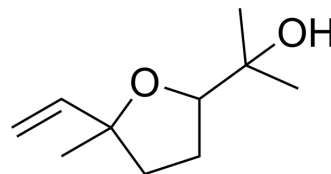
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Linalool oxide

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	1. 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					
	2. 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					
	3. 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]} .
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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.

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