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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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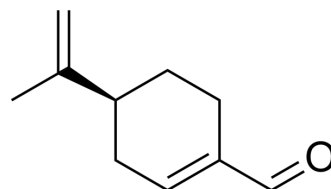
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L-Perillaldehyde

Cat. No.:	HY-N2085
CAS No.:	18031-40-8
Molecular Formula:	C ₁₀ H ₁₄ O
Molecular Weight:	150.22
Target:	Others
Pathway:	Others
Storage:	-20°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 (665.69 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		6.6569 mL	33.2845 mL	66.5690 mL
		5 mM		1.3314 mL	6.6569 mL	13.3138 mL
		10 mM		0.6657 mL	3.3285 mL	6.6569 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 (16.64 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (16.64 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.64 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	L-Perillaldehyde is a major component in the essential oil containing in Perillae Herba. Inhalation of L-Perillaldehyde shows antidepressant-like activity through the olfactory nervous function ^[1] .	
In Vivo	L-Perillaldehyde (0.0965 and 0.965 mg/mouse/day, 9 times, inhalation) reduces the immobility of stress-induced depression-like model mice in the forced swimming test ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Stress-induced depression-like model mice ^[1]

Dosage:	0.0965 and 0.965 mg/mouse/day
Administration:	Inhalation
Result:	Reduced the immobility in the forced swimming test.

REFERENCES

[1]. Ito N, et al. Antidepressant-like Effect of l-perillaldehyde in Stress-induced Depression-like Model Mice through Regulation of the Olfactory Nervous System. Evid Based Complement Alternat Med. 2011;2011:512697.

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

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