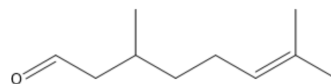


Citronellal

Cat. No.:	HY-N7126
CAS No.:	106-23-0
Molecular Formula:	C ₁₀ H ₁₈ O
Molecular Weight:	154.25
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°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 (648.30 mM; Need ultrasonic)					
	Ethanol : 100 mg/mL (648.30 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		6.4830 mL	32.4149 mL	64.8298 mL
5 mM			1.2966 mL	6.4830 mL	12.9660 mL	
10 mM		0.6483 mL	3.2415 mL	6.4830 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 (16.21 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Citronellal is a monoterpene from the essential oils in various aromatic species of plants, with depressant, and antinociceptive properties. Citronellal attenuates mechanical nociception, mediated in part by the NO-cGMP-ATP-sensitive K ⁺ channel pathway ^{[1][2]} .
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REFERENCES

[1]. Melo MS, et al. Antinociceptive effect of citronellal in mice. Pharm Biol. 2010 Apr;48(4):411-6.

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

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