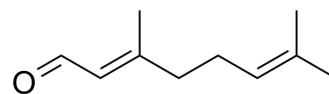


Citral

Cat. No.:	HY-N7083		
CAS No.:	5392-40-5		
Molecular Formula:	C ₁₀ H ₁₆ O		
Molecular Weight:	152.23		
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 (656.90 mM)
 H₂O : 1 mg/mL (6.57 mM); ultrasonic and warming and heat to 80°C
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		6.5690 mL	32.8450 mL	65.6901 mL
	5 mM		1.3138 mL	6.5690 mL	13.1380 mL
	10 mM		0.6569 mL	3.2845 mL	6.5690 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 (16.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Citral is a monoterpene found in Cymbopogon citratus essential oil, with antihyperalgesic, anti-nociceptive and anti-inflammatory effects^[1].

CUSTOMER VALIDATION

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- Bioeng Transl Med. 2021 Mar 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Campos CA, et al. Anti-hyperalgesic and anti-inflammatory effects of citral with β -cyclodextrin and hydroxypropyl- β -cyclodextrin inclusion complexes in animal models. Life Sci. 2019 Jul 15;229:139-148.

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

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