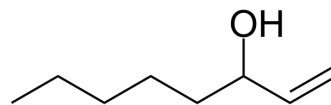


Oct-1-en-3-ol

Cat. No.:	HY-W010410		
CAS No.:	3391-86-4		
Molecular Formula:	C ₈ H ₁₆ O		
Molecular Weight:	128.22		
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 (779.91 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.7991 mL	38.9955 mL	77.9910 mL
	5 mM	1.5598 mL	7.7991 mL	15.5982 mL
	10 mM	0.7799 mL	3.8995 mL	7.7991 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 (19.50 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (19.50 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (19.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oct-1-en-3-ol, a fatty acid fragment, is a self-stimulating oxylipin messenger. Oct-1-en-3-ol serves as a signaling molecule in plant cellular responses, plant-herbivore interactions, and plant-plant interactions. Oct-1-en-3-ol causes dopamine neuron degeneration through disruption of dopamine handling^{[1][2]}.

REFERENCES

[1]. Haimin Chen, et al. 1-Octen-3-ol, a self-stimulating oxylipin messenger, can prime and induce defense of marine alga.

[2]. Arati A Inamdar, et al. Fungal-derived semiochemical 1-octen-3-ol disrupts dopamine packaging and causes neurodegeneration. Proc Natl Acad Sci U S A. 2013 Nov 26;110(48):19561-6.

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

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