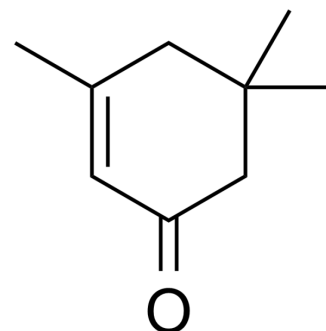


Isophorone

Cat. No.:	HY-Y0932		
CAS No.:	78-59-1		
Molecular Formula:	C ₉ H ₁₄ O		
Molecular Weight:	138.21		
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 (723.54 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.2354 mL	36.1768 mL	72.3537 mL
		5 mM	1.4471 mL	7.2354 mL	14.4707 mL
10 mM		0.7235 mL	3.6177 mL	7.2354 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Isophorone, an α,β-unsaturated cyclic ketone, is used as a precursor to polymers ^[1] .
In Vitro	The selective oxidation of isophorone to 4-hydroxisophorone, which is an important flavour and fragrance compound as well as a synthetic intermediate for pigments and drug molecules, is a suitable target for biocatalytic oxidation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dezvarei S, et al. Stereoselective hydroxylation of isophorone by variants of the cytochromes P450 CYP102A1 and CYP101A1. *Enzyme Microb Technol.* 2018 Apr;111:29-37.

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

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