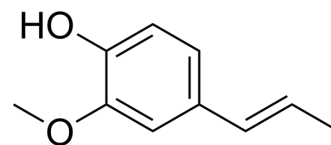


Isoeugenol

Cat. No.:	HY-N1952		
CAS No.:	97-54-1		
Molecular Formula:	C ₁₀ H ₁₂ O ₂		
Molecular Weight:	164.2		
Target:	Bacterial		
Pathway:	Anti-infection		
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 (609.01 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		6.0901 mL	30.4507 mL	60.9013 mL
		5 mM		1.2180 mL	6.0901 mL	12.1803 mL
10 mM			0.6090 mL	3.0451 mL	6.0901 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 (15.23 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Isoeugenol is an essential oil constituent of nutmeg, clove, and cinnamon. Isoeugenol inhibits growth of <i>Escherichia coli</i> and <i>Listeria innocua</i> with MICs of 0.6 mg/mL and 1 mg/mL, respectively ^[1] .
In Vitro	Isoeugenol's antibacterial activity covers a broad range of Gram-positive and Gram-negative bacteria, including <i>Escherichia coli</i> , <i>Bacillus licheniformis</i> , <i>Micrococcus luteus</i> , <i>Pseudomonas aeruginosa</i> , <i>Salmonella</i> type B, and <i>Staphylococcus aureus</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hyldgaard M, et al. Isoeugenol has a non-disruptive detergent-like mechanism of action. *Front Microbiol.* 2015 Jul 28;6:754.

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

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