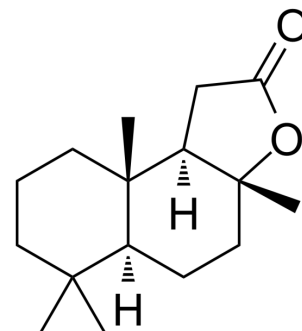


Sclareolide

Cat. No.:	HY-N0129
CAS No.:	564-20-5
Molecular Formula:	C ₁₆ H ₂₆ O ₂
Molecular Weight:	250
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (400.00 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	4.0000 mL	20.0000 mL	40.0000 mL
			5 mM	0.8000 mL	4.0000 mL	8.0000 mL
10 mM			0.4000 mL	2.0000 mL	4.0000 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 (10.00 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.00 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.00 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Sclareolide is isolated from the flower of <i>Perilla frutescens</i> with antibacterial and cytotoxic activities ^[1] .
IC ₅₀ & Target	IC50: bacterial ^[1]
In Vitro	Sclareolide has a good antibacterial activity against <i>Staphylococcus aureus</i> ATCC 25923, <i>Pseudomonas aeruginosa</i> ATCC 27950, <i>Escherichia coli</i> ATCC 25922 and <i>Enterococcus faecalis</i> ATCC 29212 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hayet E, et al. Antibacterial and cytotoxic activity of the acetone extract of the flowers of *Salvia sclarea* and some natural products. *Pak J Pharm Sci.* 2007 Apr;20(2):146-8.

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

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