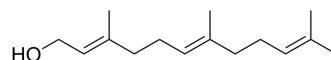


Farnesol

Cat. No.:	HY-Y0248A
CAS No.:	4602-84-0
Molecular Formula:	C ₁₅ H ₂₆ O
Molecular Weight:	222.37
Target:	Endogenous Metabolite; Bacterial; Antibiotic
Pathway:	Metabolic Enzyme/Protease; 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 (449.70 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.4970 mL	22.4850 mL	44.9701 mL
		5 mM	0.8994 mL	4.4970 mL	8.9940 mL
	10 mM	0.4497 mL	2.2485 mL	4.4970 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 (11.24 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.24 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Farnesol is a sesquiterpene alcohol that modulates cell-to-cell communication in <i>Candida albicans</i> , and has the activity in inhibiting bacteria.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Farnesol is a sesquiterpene alcohol that modulates cell-to-cell communication in <i>Candida albicans</i> . It is also shown that this molecule presents inhibitory effects against non- <i>albicans</i> <i>Candida</i> species, <i>Paracoccidioides brasiliensis</i> and bacteria. The minimum inhibitory concentrations (MICs) are determined in accordance with the M27-A3 protocol as described and Farnesol is tested at a concentration range of 0.29-150 μM. It is observed that Farnesol presents an inhibitory activity against

C. neoformans and C. gattii (MIC range: 0.29-75.0 µM). Although Farnesol does not significantly alter phospholipase activity, a tendency to decrease this activity is observed^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Antimicrob Agents. 2023 Jun 22;106899.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cordeiro Rde A, et al. Farnesol inhibits in vitro growth of the Cryptococcus neoformans species complex with no significant changes in virulence-related exoenzymes. Vet Microbiol. 2012 Oct 12;159(3-4):375-80.

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

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