

Farnesol

Chemical Properties

CAS No. : 4602-84-0

Formula: C₁₅H₂₆O

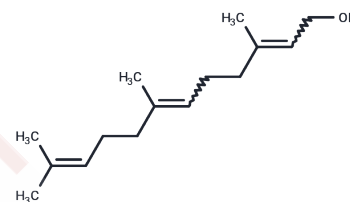
Molecular Weight: 222.37

Storage:

Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Farnesol is a natural product, has the activity in inhibiting bacteria.
Targets(IC50)	Endogenous Metabolite, Antibacterial, Antibiotic
In vivo	Farnesol, an acyclic sesquiterpene alcohol, is predominantly found in essential oils of various plants in nature, exhibit anti-cancer and anti-inflammatory effects, and also alleviate allergic asthma, gliosis, and edema. In numerous tumor cell lines, farnesol can modulate various tumorigenic proteins and/or modulates diverse signal transduction cascades. It can also induce apoptosis and downregulate cell proliferation, angiogenesis, and cell survival. To exert its anti-inflammatory/anti-oncogenic effects, farnesol can modulate Ras protein and nuclear factor kappa-light-chain-enhancer of activated B cells activation to downregulate the expression of various inflammatory mediators such as cyclooxygenase-2, inducible nitric oxide synthase, tumor necrosis factor alpha, and interleukin-6[1].

Solubility Information

Solubility	DMSO: 9 mg/mL (40.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.5 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.497 mL	22.485 mL	44.9701 mL
5 mM	0.8994 mL	4.497 mL	8.994 mL
10 mM	0.4497 mL	2.2485 mL	4.497 mL
50 mM	0.0899 mL	0.4497 mL	0.8994 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Young, Yun, Jung, et al. Potential Anti-Inflammatory and Anti-Cancer Properties of Farnesol.[J]. *Molecules*, 2018.
Cordeiro R D A , Nogueira G C , Brilhante R S N , et al. Farnesol inhibits in vitro growth of the *Cryptococcus neoformans* species complex with no significant changes in virulence-related exoenzymes[J]. *Veterinary Microbiology*, 2012, 159(3-4).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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