

(E)- β -Farnesene

Chemical Properties

CAS No. : 18794-84-8

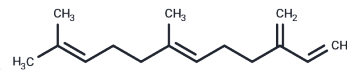
Formula: C₁₅H₂₄

Molecular Weight: 204.35

Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(E)- β -Farnesene (trans- β -Farnesene) is a sesquiterpene hydrocarbon found in <i>Phlomis aurea</i> Decne, serving as the primary component of many aphid alarm pheromones that disrupt feeding. It also impairs the development and survival of <i>Chilo suppressalis</i> larvae by disrupting their hormone balance.
Targets(IC50)	CDK,Antifungal

Solubility Information

Solubility	DMSO: 20 mg/mL (97.87 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: 2 mg/mL (9.79 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	4.8936 mL	24.4678 mL	48.9356 mL
5 mM	0.9787 mL	4.8936 mL	9.7871 mL
10 mM	0.4894 mL	2.4468 mL	4.8936 mL
50 mM	0.0979 mL	0.4894 mL	0.9787 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

Tesh RB, et al. Trans-beta-farnesene as a feeding stimulant for the sand fly *Lutzomyia longipalpis* (Diptera: Psychodidae). *J Med Entomol.* 1992 Mar;29(2):226-31.

Torky ZA, et al. Chemical profiling, antiviral and antiproliferative activities of the essential oil of *Phlomis aurea* Decne grown in Egypt. *Food Funct.* 2021 May 21;12(10):4630-4643.

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