

## Geranylgeraniol

## Chemical Properties

CAS No. : 24034-73-9

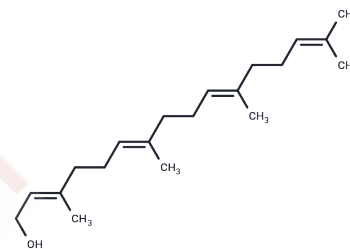
Formula: C<sub>20</sub>H<sub>34</sub>O

Molecular Weight: 290.48

Store at low temperature

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	Geranylgeraniol (FT0626663) is an isoprenoid found in fruits, vegetables, and grains, including rice. Geranylgeraniol (FT0626663) inhibits growth and induces apoptosis of various tumor cells. Geranylgeraniol (FT0626663) protects monocytes against statin-induced cytotoxicity and suppresses the growth of Mycobacterium.
Targets(IC50)	Apoptosis,NF-κB

## Solubility Information

Solubility	Ethanol: >25 mg/ml,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 (6.89 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	3.4426 mL	17.2129 mL	34.4258 mL
5 mM	0.6885 mL	3.4426 mL	6.8852 mL
10 mM	0.3443 mL	1.7213 mL	3.4426 mL
50 mM	0.0689 mL	0.3443 mL	0.6885 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

Schumacher MM, et al. The prenyltransferase UBIAD1 is the target of geranylgeraniol in degradation of HMG CoA reductase. *Elife*. 2015 Mar 5;4.

Fernandes NV, et al. Geranylgeraniol suppresses the viability of human DU145 prostate carcinoma cells and the level of HMG CoA reductase. *Exp Biol Med (Maywood)*. 2013 Nov 1;238(11):1265-74.

Zafar S, et al. Zoledronic acid and geranylgeraniol regulate cellular behaviour and angiogenic gene expression in human gingival fibroblasts. *J Oral Pathol Med*. 2014 Oct;43(9):711-21.

Pabst AM, et al. Isoprenoid geranylgeraniol: the influence on cell characteristics of endothelial progenitor cells after bisphosphonate therapy in vitro. *Clin Oral Investig*. 2015 Sep;19(7):1625-33.

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