

PHYTOL

Chemical Properties

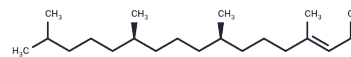
CAS No. : 150-86-7

Formula: C₂₀H₄₀O

Molecular Weight: 296.53

Storage: 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	PHYTOL (trans-Phytol), a diterpene alcohol from chlorophyll widely used as a food additive and in medicinal fields, shows antinociceptive and antioxidant activities as well as anti-inflammatory and antiallergic effects. It is a specific activator of PPAR α .
Targets(IC50)	Nrf2, Antibacterial, Parasite, PPAR

Solubility Information

Solubility	DMSO: 2.97 mg/mL (10.02 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 (3.37 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	3.3723 mL	16.8617 mL	33.7234 mL
5 mM	0.6745 mL	3.3723 mL	6.7447 mL
10 mM	0.3372 mL	1.6862 mL	3.3723 mL
50 mM	0.0674 mL	0.3372 mL	0.6745 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

Daines, Alison. Current Organic Chemistry. 7 (16): 1625-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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