

γ -Tocopherol

Chemical Properties

CAS No. : 54-28-4

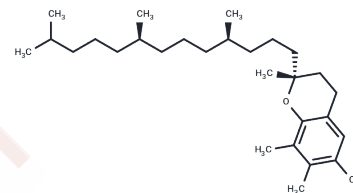
Formula: C₂₈H₄₈O₂

Molecular Weight: 416.68

Keep away from direct sunlight, Keep away from moisture, 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	(+)- γ -Tocopherol ((+)- γ -Tocopherol) is one of the naturally occurring forms of Vitamin E. It is the most abundant Tocopherol in soybean and corn oils.
Targets(IC50)	Endogenous Metabolite, COX

Solubility Information

Solubility	DMSO: 30 mg/mL (72 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 (4.8 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	2.3999 mL	11.9996 mL	23.9992 mL
5 mM	0.480 mL	2.3999 mL	4.7998 mL
10 mM	0.240 mL	1.200 mL	2.3999 mL
50 mM	0.048 mL	0.240 mL	0.480 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

Q Jiang, et al. Gamma-Tocopherol, the Major Form of Vitamin E in the US Diet, Deserves More Attention. Am J Clin Nutr, 74 (6), 714-22. Dec 2001.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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