

α -Tocotrienol

Chemical Properties

CAS No. : 58864-81-6

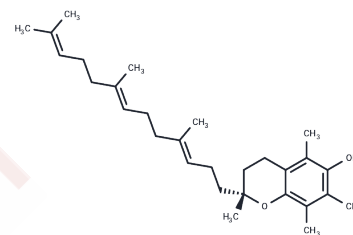
Formula: C₂₉H₄₄O₂

Molecular Weight: 424.66

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	D-ALPHA-TOCOTRIENOL, an isoform of vitamin E, is found in vegetables, fruits, seeds, grains, oils and nuts.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 12 mg/mL (28.26 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 (4.71 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	2.3548 mL	11.7741 mL	23.5483 mL
5 mM	0.471 mL	2.3548 mL	4.7097 mL
10 mM	0.2355 mL	1.1774 mL	2.3548 mL
50 mM	0.0471 mL	0.2355 mL	0.471 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

Kemnic TR, Coleman M. Vitamin E Deficiency. 2021 Jul 18. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-.

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