

DL-alpha-Tocopherol

Chemical Properties

CAS No. : 10191-41-0

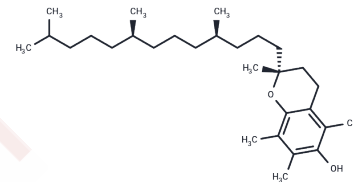
Formula: C₂₉H₅₀O₂

Molecular Weight: 430.71

Keep away from direct sunlight, 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	DL-alpha-Tocopherol (Ephanyl) is a synthetic vitamin E that protects skin fibroblasts from the cytotoxic effects of UV light and has antioxidant properties.
Targets(IC50)	Apoptosis, Antioxidant, Ferroptosis, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 25 mg/mL (58.04 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 (4.64 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	2.3217 mL	11.6087 mL	23.2175 mL
5 mM	0.4643 mL	2.3217 mL	4.6435 mL
10 mM	0.2322 mL	1.1609 mL	2.3217 mL
50 mM	0.0464 mL	0.2322 mL	0.4643 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

Sakouhi, F., et al.: Food Chem., 108, 833 (2008)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481