

Delta-Tocopherol

Chemical Properties

CAS No. : 119-13-1

Formula: C₂₇H₄₆O₂

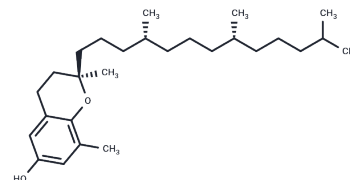
Molecular Weight: 402.65

Appearance: no data available

Storage:

store at low temperature, keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Delta-Tocopherol is an isomer of Vitamin E, has antioxidant activity, and might be useful as effective ingredients in whitening cosmetics with lower skin toxicity.
Targets(IC ₅₀)	Endogenous Metabolite
In vitro	D-beta-tocopherol at 250 µg ml ⁻¹ inhibited not only 28% of melanin synthesis in B16 cells, but also 34% of the tyrosinase activity, a very important cascade enzyme involved in the synthesis of melanin in melanoma cells. D-gamma-tocopherol also strongly inhibited up to 39% of melanin synthesis and 45% of the tyrosinase enzyme activity at the same concentration.

Solubility Information

Solubility	DMSO: 125 mg/mL (310.44 mM), (< 1 mg/mL refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4835 mL	12.4177 mL	24.8355 mL
5 mM	0.4967 mL	2.4835 mL	4.9671 mL
10 mM	0.2484 mL	1.2418 mL	2.4835 mL
50 mM	0.0497 mL	0.2484 mL	0.4967 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.

Reference

Kamei Y, Otsuka Y, Abe K. Comparison of the inhibitory effects of vitamin E analogues on melanogenesis in mouse B16 melanoma cells[J]. Cytotechnology, 2009, 59(3):183-190.

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:36 Washington Street,Wellesley Hills,MA 02481