δ-Tocotrienol

Cat. No.: HY-122778

CAS No.: 25612-59-3

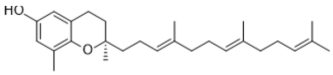
Molecular Formula: $C_{27}H_{40}O_2$

Molecular Weight: 397

Target: Others

Pathway: Others

Storage: -20°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (251.89 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5189 mL	12.5945 mL	25.1889 mL
	5 mM	0.5038 mL	2.5189 mL	5.0378 mL
	10 mM	0.2519 mL	1.2594 mL	2.5189 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (6.30 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (6.30 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

δ-Tocotrienol is a Vitamin E in vegetables, fruits, seeds, nuts, grains and oils. Vitamin E has become well known for its role as an antioxidant, in lowering cholesterol and other lipids, as a neuroprotective and anticancer agent, and in cardiovascular disease protection.

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