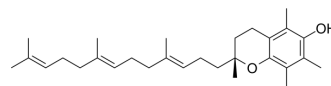


α-Tocotrienol

Cat. No.:	HY-129459
CAS No.:	58864-81-6
Molecular Formula:	C ₂₉ H ₄₄ O ₂
Molecular Weight:	424.66
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (235.48 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.3548 mL</td> <td>11.7741 mL</td> <td>23.5483 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4710 mL</td> <td>2.3548 mL</td> <td>4.7097 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2355 mL</td> <td>1.1774 mL</td> <td>2.3548 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.3548 mL	11.7741 mL	23.5483 mL	5 mM	0.4710 mL	2.3548 mL	4.7097 mL	10 mM	0.2355 mL	1.1774 mL	2.3548 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	α-Tocotrienol is an isoform of vitamin E and found in vegetables, fruits, seeds, nuts, grains, and oils. Vitamin E plays a role as an antioxidant, in lowering cholesterol and other lipids, as a neuroprotective and anticancer agent, and in cardiovascular disease protection.
IC₅₀ & Target	Human Endogenous Metabolite

Caution: Product has not been fully validated for medical applications. For research use only.

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