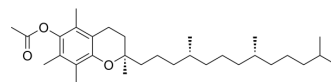


D- α -Tocopherol acetate

Cat. No.:	HY-B1278
CAS No.:	58-95-7
Molecular Formula:	C ₃₁ H ₅₂ O ₃
Molecular Weight:	472.74
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : \geq 250 mg/mL (528.83 mM)
 Ethanol : 100 mg/mL (211.53 mM; Need ultrasonic)
 * " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1153 mL	10.5766 mL	21.1533 mL
	5 mM	0.4231 mL	2.1153 mL	4.2307 mL
	10 mM	0.2115 mL	1.0577 mL	2.1153 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: \geq 2.75 mg/mL (5.82 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 2.75 mg/mL (5.82 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: \geq 2.75 mg/mL (5.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D- α -Tocopherol acetate (D-Vitamin E acetate) can be hydrolyzed to d-alpha-tocopherol (VE) and absorbed in the small intestine^[1].

REFERENCES

[1]. Fukui E, et al. Enhancing effect of medium-chain triglycerides on intestinal absorption of d-alpha-tocopherol acetate from lecithin-dispersed preparations in the rat. J Pharmacobiodyn. 1989 Feb;12(2):80-6.

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

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