

DL- α -tocopherol acetate

Chemical Properties

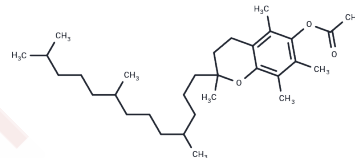
CAS No. : 52225-20-4

Formula: C₃₁H₅₂O₃

Molecular Weight: 472.74

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- α -tocopherol acetate (Vitamin E acetate) is a vitamin E derivative used as a vitamin E supplement in poultry feed.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 90 mg/mL (190.38 mM),Sonication is recommended. DMSO: 55 mg/mL (116.34 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 (4.23 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	2.1153 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
50 mM	0.0423 mL	0.2115 mL	0.4231 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

- Nagy K, et al. Double-balloon jejunal perfusion to compare absorption of vitamin E and vitamin E acetate in healthy volunteers under maldigestion conditions. *Eur J Clin Nutr.* 2013;67(2):202-206.
- Nishio K, et al. α -Tocopheryl phosphate: uptake, hydrolysis, and antioxidant action in cultured cells and mouse. *Free Radic Biol Med.* 2011;50(12):1794-1800.
- Baldwin W S, et al. Production of d-alpha-tocopherol from natural plant sources. US4977282 A.

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