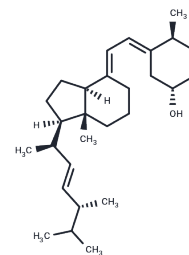


Dihydrotachysterol

Chemical Properties

CAS No. :	67-96-9
Formula:	C ₂₈ H ₄₆ O
Molecular Weight:	398.66
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Dihydrotachysterol (HSDB 3314) is a vitamin D analog. Dihydrotachysterol has been used to study hypocalcemic hypoparathyroidism after surgical removal of the parathyroid glands and growth impairment in children with chronic renal insufficiency.
Targets(IC50)	Others, Vitamin
In vitro	In a mixed-breed model of young to middle-aged cats, Dihydrotachysterol (0.03-0.08 mg/kg/day for 2-3 days) was used to treat hypoparathyroidism. The final dose range was 0.004-0.04 mg/kg/day, administered orally[2].

Solubility Information

Solubility	DMSO: 15 mg/mL (37.63 mM), Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.51 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	2.5084 mL	12.542 mL	25.084 mL
5 mM	0.5017 mL	2.5084 mL	5.0168 mL
10 mM	0.2508 mL	1.2542 mL	2.5084 mL
50 mM	0.0502 mL	0.2508 mL	0.5017 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

- I Quack, et al. Dihydroxycholesterol therapy for hypoparathyroidism: consequences of inadequate monitoring. Five cases and a review. *Exp Clin Endocrinol Diabetes*. 2005 Jul;113(7):376-80.
- M E Peterson, et al. Idiopathic hypoparathyroidism in five cats. *J Vet Intern Med*. Jan-Feb 1991;5(1):47-51.
- Voigts AL, Felsenfeld AJ, Llach F. The effects of calciferol and its metabolites on patients with chronic renal failure. I. Calciferol, dihydroxycholesterol, and calcifediol. *Arch Intern Med*. 1983 May;143(5):960-3.
- Pierides AM. Pharmacology and therapeutic use of vitamin D and its analogues. *Drugs*. 1981 Apr;21(4):241-56.

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