

Isotachysterol 3

Chemical Properties

CAS No. :	22350-43-2
Formula:	C ₂₇ H ₄₄ O
Molecular Weight:	384.64
Storage:	Store under nitrogen, Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Isotachysterol 3 is an open-ring steroid compound that is a structurally similar analog of active vitamin D and also serves as an impurity in the production of vitamin D ₃ . In a rat model without kidneys, isotachysterol 3 significantly stimulates intestinal calcium transport and bone calcium mobilization. Isotachysterol 3 can be used in studies of vitamin D metabolism that do not rely on renal 1 α -hydroxylation.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5998 mL	12.9992 mL	25.9983 mL
5 mM	0.520 mL	2.5998 mL	5.1997 mL
10 mM	0.260 mL	1.2999 mL	2.5998 mL
50 mM	0.052 mL	0.260 mL	0.520 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

M F Holick, et al. Isotachysterol-3 and 25-hydroxyisotachysterol-3: Analogs of 1,25-dihydrox Vitamin D3. Science. 1973 Jun 1;180(4089):964-6.

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