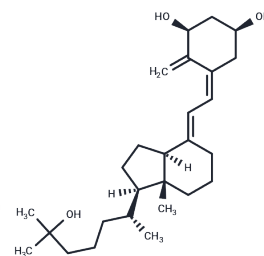


(1S)-Calcitriol

Chemical Properties

CAS No. :	61476-45-7
Formula:	C ₂₇ H ₄₄ O ₃
Molecular Weight:	416.646
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(1S)-Calcitriol (1 α ,25-Dihydroxy-3-epi-vitamin-D3), a natural metabolite of 1 α ,25-dihydroxyvitamin D3 (1 α ,25(OH) ₂ D ₃), exerts potent actions through vitamin D receptor (VDR) activation, including the inhibition of keratinocyte growth and suppression of parathyroid hormone secretion [1].
Targets(IC50)	Others, Vitamin
In vitro	3-epi-Calcitroic acid is a metabolic end product of (1S)-Calcitriol (1 α ,25-Dihydroxy-3-epi-vitamin-D3; 3-epi-1 α ,25(OH) ₂ D ₃) in rats, catalyzed by CYP24A1[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4001 mL	12.0005 mL	24.001 mL
5 mM	0.480 mL	2.4001 mL	4.8002 mL
10 mM	0.240 mL	1.200 mL	2.4001 mL
50 mM	0.048 mL	0.240 mL	0.480 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

Steve Y Rhieu, et al. Metabolic stability of 3-epi-1 α ,25-dihydroxyvitamin D3 over 1 α 25-dihydroxyvitamin D3: metabolism and molecular docking studies using rat CYP24A1. J Cell Biochem. 2013 Oct;114(10):2293-305.

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