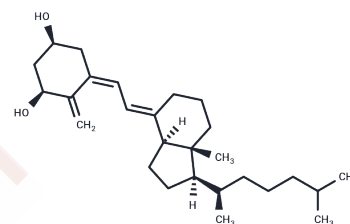


1 $\alpha$ -Hydroxy-3-epi-vitamin D3

## Chemical Properties

CAS No. :	58028-00-5
Formula:	C <sub>27</sub> H <sub>44</sub> O <sub>2</sub>
Molecular Weight:	400.647
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	1 $\alpha$ -Hydroxy-3-epi-vitamin D <sub>3</sub> , a natural metabolite derived from 1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> , effectively suppresses parathyroid hormone (PTH) secretion [1].
Targets(IC50)	Others,Thyroid hormone receptor(THR)
In vitro	1 $\alpha$ , 25(OH)D <sub>3</sub> serves as a crucial negative regulator of parathyroid hormone (PTH) gene transcription[1]. In ROS 17/2.8 cells, at a concentration of 10 $\mu$ M, 1 $\alpha$ -OHD <sub>3</sub> undergoes metabolism to form 1 $\alpha$ OH-3-epi-D <sub>3</sub> , 1 $\alpha$ ,25(OH)D <sub>3</sub> , and also 1 $\alpha$ ,25(OH)2-3-epi-D <sub>3</sub> [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4959 mL	12.4797 mL	24.9594 mL
5 mM	0.4992 mL	2.4959 mL	4.9919 mL
10 mM	0.2496 mL	1.248 mL	2.4959 mL
50 mM	0.0499 mL	0.2496 mL	0.4992 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

A J Brown, et al. 1 $\alpha$ ,25-dihydroxy-3-epi-vitamin D<sub>3</sub>, a natural metabolite of 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>, is a potent suppressor of parathyroid hormone secretion. J Cell Biochem. 1999 Apr 1;73(1):106-13.

Alex J Brown, et al. Isolation and identification of 1 $\alpha$ -hydroxy-3-epi-vitamin D<sub>3</sub>, a potent suppressor of parathyroid hormone secretion. J Cell Biochem

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