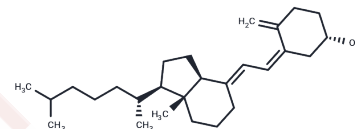


Vitamin D3

Chemical Properties

CAS No. :	67-97-0
Formula:	C ₂₇ H ₄₄ O
Molecular Weight:	384.64
Appearance:	no data available
Storage:	keep away from direct sunlight Pure form: -20°C for 3 years



Biological Description

Description	Vitamin D3 (Cholecalciferol) , a naturally occurring form of vitamin D, activates an H305F/H397Y mutant vitamin D receptor (VDR).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 45 mg/mL (116.99 mM),Sonication is recommended. (The compound is unstable in solution, please use soon.) (< 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.

Reference

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- Krishnan AV, Feldman D. Mechanisms of the anti-cancer and anti-inflammatory actions of vitamin D. Annu Rev Pharmacol Toxicol. 2011;51:311-36. doi: 10.1146/annurev-pharmtox-2010510-1200611.
- Leibowitz SB, Kantoff PW. Differentiating agents and the treatment of prostate cancer: Vitamin D3 and peroxisome proliferator-activated receptor gamma ligands. Semin Oncol. 2003 Oct;30(5):698-708.
- Nigwekar SU, Bhan I, Thadhani R. Ergocalciferol and cholecalciferol in CKD. Am J Kidney Dis. 2012 Jul;60(1):139-56. doi: 10.1053/j.ajkd.2011.12.035.

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