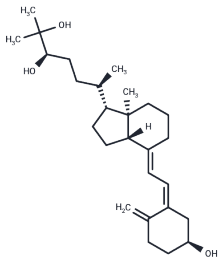
Data Sheet (Cat.No.T12874)

TargetMol

Secalciferol

Chemical Properties



CAS No. : 55721-11-4

Formula: C27H44O3

Molecular Weight: 416.64

Storage: Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Secalciferol is a Vitamin D metabolite,Secalciferol is a possibly anti-inflammatory steroid which is involved in bone ossification.
Targets(IC50)	Others,Endogenous Metabolite,Vitamin
Kinase Assay	6. Rubin LP, Yeung B, Vouros P et al. Evidence for human placental synthesis of 24,25-dihydroxyvitamin D3 and 23,25-dihydroxyvitamin D3. Pediatr Res. 1993 Jul;34(1):98-104.
Cell Research	http://www.ncbi.nlm.nih.gov/pubmed/8356026

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4002 mL	12.0008 mL	24.0015 mL
5 mM	0.480 mL	2.4002 mL	4.8003 mL
10 mM	0.240 mL	1.2001 mL	2.4002 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

Yamamoto T, Ozono K, Shima M, et al. 24R,25-dihydroxyvitamin D3 increases cyclic GMP contents, leading to an enhancement of osteocalcin synthesis by 1,25-dihydroxyvitamin D3 in cultured human osteoblastic cells. Exp Cell Res. 1998 Oct 10;244(1):71-6.

Sakaki T, Sawada N, Takeyama K, et al. Enzymatic properties of mouse 25-hydroxyvitamin D3 1 α-hydroxylase expressed in Escherichia coli. Eur J Biochem. 1999 Feb;259(3):731-8.

Norman AW, Okamura WH, Bishop JE, Henry HL. Update on biological actions of 1α,25(OH)2-vitamin D3 (rapid effects) and 24R,25(OH)2-vitamin D3. Mol Cell Endocrinol. 2002 Nov 29;197(1-2):1-13

Hurst-Kennedy J, Zhong M, Gupta V et al. 24R,25-Dihydroxyvitamin D3, lysophosphatidic acid, and p53: a signaling axis in the inhibition of phosphate-induced chondrocyte apoptosis. J Steroid Biochem Mol Biol. 2010 Oct;122(4): 264-71.

Wehmeier KR, Alamir AR, Sultan S, et al. 24, 25-dihydroxycholecalciferol but not 25-hydroxycholecalciferol suppresses apolipoprotein A-I gene expression. Life Sci. 2011 Jan 3;88(1-2):110-6.