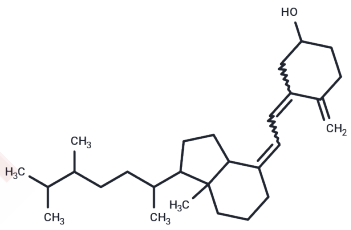
Data Sheet (Cat.No.T19602)

TargetMol

Vitamin D4

Chemical Properties



CAS No. : 511-28-4

Formula: C28H46O

Molecular Weight: 398.66

Storage: Keep away from direct sunlight
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	Vitamin D4 is the active Vitamin D analog.
Targets(IC50)	Others,Vitamin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5084 mL	12.542 mL	25.084 mL
5 mM	0.5017 mL	2.5084 mL	5.0168 mL
10 mM	0.2508 mL	1.2542 mL	2.5084 mL
50 mM	0.0502 mL	0.2508 mL	0.5017 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

Byford V, et al. Use of vitamin D(4) analogs to investigate differences in hepatic and target cell metabolism of vitamins D(2) and D(3). Biochim Biophys Acta. 2002 Jul 11;1583(2):151-66.

Tachibana Y, Tsuji M. Study on the metabolites of 1alpha,25-dihydroxyvitamin D4. Steroids. 2001 Feb;66(2):93-97.

Tsugawa N, et al. Biological activity profiles of 1alpha,25-dihydroxyvitamin D2, D3, D4, D7, and 24-epi-1alpha,25-dihydroxyvitamin D2. Biol Pharm Bull. 1999 Apr;22(4):371-7.

Rikkers H, DeLuca H, Lobeck C. Metabolism and serum protein binding of 3H-vitamin D4 in vitamin D-resistant rickets. J Pediatr. 1969 May;74(5):828.

De Luca HF, Weller M, Blunt JW, Neville PF. Synthesis, biological activity., and metabolism of 22,23-3H vitamin D4. Arch Biochem Biophys. 1968 Mar 20;124(1):122-8.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481