Product Data Sheet

Product Name: Ercalcitriol
Cat. No.: GC12685

Chemical Properties

Cas. No.	60133-18-8		
Chemical Name	(1R,3S,5Z)-5-[(2E)-2-[(1R,3aS,7aR)-1-[(E,2R,5S)-6-hydroxy-5,6-dimethylhept-3-en-2-yl]-7a-methyl-2,3,3a,5,6,7-hexahydro-1H-inden-4-ylidene]ethylidene]-4-methylidenecyclohexane-1,3-diol		
SMILES	CC(C=CC(C)C(C)(C)O)C1CCC2C1(CCCC2=CC=C3CC(CC(C3=C)O)O)C		
Formula	$C_{28}H_{44}O_3$	M.Wt	428.66
Solubility	Ethanol: 1 mg/ml	Storage	Store at -20°C,unstable in solution, ready to use.
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Caution: Product has not been fully validated for medical applications. For research use only.
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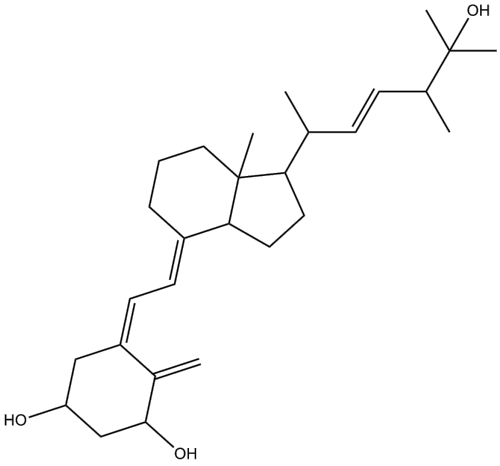
Structure



Background

Ercalcitriol (1α,25-Dihydroxy Vitamin D2) is an active metabolite of vitamin D2.

References:
[1]. Mawer EB, Berry JL, Cundall JP, Still PE, White A.A sensitive radioimmunoassay using a monoclonal antibody that is equipotent for ercalcitriol and calcitriol (1,25-dihydroxy vitamin D2 and D3).Clin Chim Acta. 1990 Oct 15;190(3):199-209.
[2]. Rambeck et al (1984) Biological activity of 1 alpha,25-dihydroxyergocalciferol in rachitic chicks and in rats. Int.J.Vitamin.Nutr.Res. 54 135.
[3]. Shamik J. Parikh, Marni Edelman, Gabriel I. Uwaifo et al. The Relationship between Obesity and Serum 1,25-Dihydroxy Vitamin D Concentrations in Healthy Adults. The Journal of Clinical Endocrinology & Metabolism March 1, 2004 vol. 89 no. 3 1196-1199
[4]. Daniel W. Coyne, Marvin Grieff, Shubhada N. Ahya et al. Differential effects of acute administration of 19-Nor-1,25-dihydroxy-vitamin D2 and 1,25-dihydroxy-vitamin D3 on serum calcium and phosphorus in hemodialysis patients. American Journal of Kidney Diseases. December 2002,Volume 40, Issue 6 , Pages 1283-1288

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