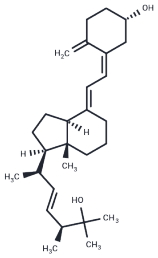
Data Sheet (Cat.No.T15242)

TargetMol

Ercalcidiol

Chemical Properties



CAS No. : 21343-40-8

Formula: C28H44O2

Molecular Weight: 412.65

Storage: Store at low temperature,Store under nitrogen
Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ercalcidiol [is a metabolite of vitamin D2] and is useful for monitoring vitamin D therapy.
Targets(IC50)	Endogenous Metabolite,Vitamin
In vitro	The half-life of Ercalcidiol is shorter than that of 25(OH)D3 and Ercalcidiol binds less well to the vitamin D binding protein, making Ercalcidiol less potent and required much higher doses than vitamin D3 [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (242.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.69 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4234 mL	12.1168 mL	24.2336 mL
5 mM	0.4847 mL	2.4234 mL	4.8467 mL
10 mM	0.2423 mL	1.2117 mL	2.4234 mL
50 mM	0.0485 mL	0.2423 mL	0.4847 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

Li L, et al. Performance evaluation of two immunoassays for 25-hydroxyvitamin D. J Clin Biochem Nutr. 2016 May; 58(3):186-92.

Newman MS, et al. A liquid chromatography/tandem mass spectrometry method for determination of 25-hydroxy vitamin D2 and 25-hydroxy vitamin D3 in dried blood spots: a potential adjunct to diabetes and cardiometabolic risk screening. J Diabetes Sci Technol