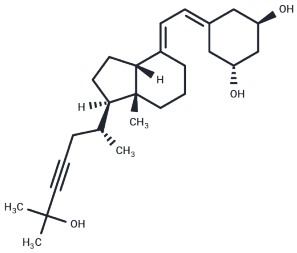
Data Sheet (Cat.No.T24166)

TargetMol
YOUR TARGET MOLECULES

Inecalcitol

Chemical Properties



CAS No. : 163217-09-2

Formula: C26H40O3

Molecular Weight: 400.59

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Inecalcitol (TX 522) is the growth inhibitor of human breast cancer cells. Inecalcitol is a unique vitamin D3 analog with Kd of 0.53 nM.
Targets(IC50)	Apoptosis
In vitro	A xenograft model of LNCaP cells was developed in immunodeficient mice treated with inecalcitol. The tumors of the diluent-treated control mice increased in size but those in the inecalcitol treatment group did not grow[1].
In vivo	Inecalcitol maximal tolerated dose (MTD) by intraperitoneal (i.p.) administration was 30 μg/mouse (1,300 μg/kg) three times per week, while we previously found that the MTD of 1,25(OH)(2) D(3) is 0.0625 μg/mouse; therefore, inecalcitol is 480 times less hypercalcemic than 1,25OH2 D3[1]. Inecalcitol inhibits androgen-responsive prostate cancer growth in vivo.

Solubility Information

Solubility	DMSO: 55 mg/ml (137.3 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4963 mL	12.4816 mL	24.9632 mL
5 mM	0.4993 mL	2.4963 mL	4.9926 mL
10 mM	0.2496 mL	1.2482 mL	2.4963 mL
50 mM	0.0499 mL	0.2496 mL	0.4993 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

Ryoko Okamoto, et al. Inecalcitol, an analog of 1α,25(OH)(2) D(3) , induces growth arrest of androgen-dependent prostate cancer cells. Int J Cancer. 2012 May 15;130(10):2464-73.

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