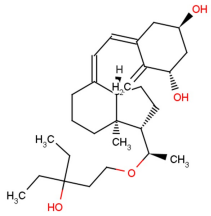
Data Sheet (Cat.No.T10695)

TargetMol
A DRUG SCREENING EXPERT

CB1151

Chemical Properties



CAS No.:	182369-28-4
Formula:	C28H46O4
Molecular Weight:	446.66
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CB1151 is a 20-epi analogue of 1,25 dihydroxyvitamin D3 with anti-tumor effects. It inhibits MCF-7 cell growth (IC50: 0.82 nM).
Targets(IC_{50})	Others: None
In vitro	CB1151 (0-100 nM; 5 days) inhibits MCF-7 cells growth, this cell proliferation is accessed by [3H]-thymidine incorporation (IC50: 0.82 nM). CB1151 (0-100 nM; 40 hours) exhibits activation of the IP9-type VD response element (EC50: 1.2 nM), the activation of IP9-type VD response elements shows a good correlation with inhibition of proliferation than the activation of DR3-type elements (EC50: 3.2nM) in MCF-7 cells transfected with the CAT reporter [1]. CB1151 shows a functional dissociation constant (Kdf) value of 3.6 nM. The ligand concentration that provides 50% of the protease-resistant VDR fragment is defined by Kdf [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.239 mL	11.194 mL	22.388 mL
5 mM	0.448 mL	2.239 mL	4.478 mL
10 mM	0.224 mL	1.119 mL	2.239 mL
50 mM	0.045 mL	0.224 mL	0.448 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Mørk Hansen C, et al. The potent anti-proliferative effect of 20-epi analogues of 1,25 dihydroxyvitamin D3 in human breast-cancer MCF-7 cells is related to promoter selectivity.Int J Cancer. 1996 Sep 4;67(5):739-42.
2. Nayeri S, et al. High-affinity nuclear receptor binding of 20-epi analogues of 1,25-dihydroxyvitamin D3 correlates well with gene activation.J Cell Biochem. 1996 Sep 1;62(3):325-33.

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