1alpha-Hydroxy VD4

Cat. No.: HY-13249

CAS No.: 143032-85-3

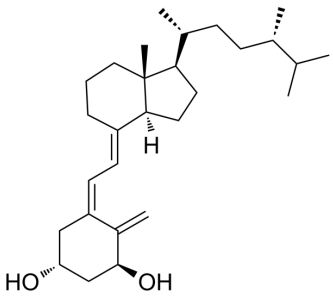
Molecular Formula: $C_{28}H_{46}O_2$

Molecular Weight: 414.66

Target: VD/VDR

Pathway: Vitamin D Related/Nuclear Receptor

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (120.58 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4116 mL	12.0581 mL	24.1161 mL
	5 mM	0.4823 mL	2.4116 mL	4.8232 mL
	10 mM	0.2412 mL	1.2058 mL	2.4116 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.03 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1alpha-Hydroxy VD4 , a 1alpha(OH)D derivative, can effectively induce the differentiation of monoblastic leukaemia U937, P39/TSU and P31/FUJ cells. IC50 value：Target: VD analog

REFERENCES

[1]. M Makishima, et al. Growth inhibition and differentiation induction in human monoblastic leukaemia cells by 1alpha-hydroxyvitamin D derivatives and their enhancement by combination with hydroxyurea. British Journal of Cancer (1998) 77, 33-39

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

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