(24S)-24,25-Dihydroxyvitamin D3

Cat. No.:	HY-15439
CAS No.:	55700-58-8
Molecular Formula:	C ₂₇ H ₄₄ O ₃
Molecular Weight:	416.64
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 : 100 mg/mL (240.02 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.4002 mL	12.0008 mL	24.0015 mL		
		5 mM	0.4800 mL	2.4002 mL	4.8003 mL		
		10 mM	0.2400 mL	1.2001 mL	2.4002 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 (6.00 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.00 mM); Suspended solution; Need ultrasonic						
	 Add each solvent of Solubility: ≥ 2.5 m 	one by one: 10% DMSO >> 90% cor g/mL (6.00 mM); Clear solution	n oil				

Description	(24S)-24,25-Dihydroxyvitamin D3 ((24S)-24,25-Dihydroxycholecalciferol) is an inactive form of vitamin D3 which undergoes various levels of hydroxylation to form active vitamin D3 analogs.			
In Vitro	(24S)-24,25-Dihydroxyvitamin D3 ((24S)-24,25-Dihydroxycholecalciferol) is a isomer of 24,25-dihydroxyvitamin D3. Vitamin D is metabolized in the liver to 25-hydroxyvitamin D3, and in the kidney to 1,25-dihydroxyvitamin D3 and 24,25- dihydroxyvitamin D3 ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

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stored under HO^w

Product Data Sheet

REFERENCES

[1]. Yamada S, Ino E, Takayama H et al. Differences in the side-chain metabolism of vitamin D3 between chickens and rats. Proc Natl Acad Sci U S A. 1985 Nov;82(22):7485-9.

[2]. Kobayashi N, Higashi T, Saito K et al. Specificity of polyclonal antibodies raised against a novel 24,25-dihydroxyvitamin D3-bovine serum albumin conjugant linked through the C-11alpha or C-3 position. J Steroid Biochem Mol Biol. 1997 May;62(1):79-87.

[3]. Larsson D, Nemere I, Sundell K. Putative basal lateral membrane receptors for 24,25-dihydroxyvitamin D(3) in carp and Atlantic cod enterocytes: characterization of binding and effects on intracellular calcium regulation. J Cell Biochem. 2001 Aug 1-9;83(2)

[4]. Nemere I, Yazzie-Atkinson D, Johns DO, Larsson D. Biochemical characterization and purification of a binding protein for 24,25-dihydroxyvitamin D3 from chick intestine. J Endocrinol. 2002 Jan;172(1):211-9.

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

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