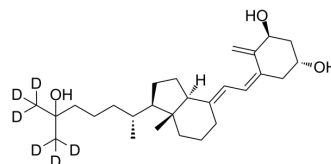


Calcitriol-d₆

Cat. No.:	HY-76814
CAS No.:	78782-99-7
Molecular Formula:	C ₂₇ H ₃₈ D ₆ O ₃
Molecular Weight:	422.67
Target:	VD/VDR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (118.30 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		2.3659 mL	11.8296 mL	23.6591 mL
5 mM		0.4732 mL	2.3659 mL	4.7318 mL
10 mM		0.2366 mL	1.1830 mL	2.3659 mL

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

BIOLOGICAL ACTIVITY

Description

Calcitriol-d₆ is the deuterium labeled Calcitriol. Calcitriol is the active metabolite of vitamin D3 that activates the vitamin D receptor (VDR)[1].

REFERENCES

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- [3]. Nijenhuis et al (2006) The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. *FASEB J.* 20 1589.
- [4]. Krishnan AV, Swami S, Feldman D.Equivalent anticancer activities of dietary vitamin D and calcitriol in an animal model of breast cancer: Importance of mammary CYP27B1 for treatment and prevention.*J Steroid Biochem Mol Biol.* 2012 Aug 23.
- [5]. Alkharfy KM, Al-Daghri NM, Yakout SM, Ahmed M.Calcitriol Attenuates Weight-Related Systemic Inflammation and Ultrastructural Changes of the Liver in a Rodent Model.*Basic Clin Pharmacol Toxicol.* 2012 Aug 21.

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

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