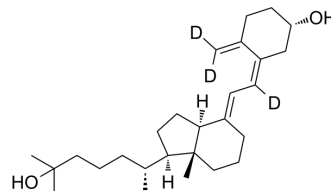


Calcifediol-d₃

Cat. No.:	HY-32351S
CAS No.:	140710-94-7
Molecular Formula:	C ₂₇ H ₄₁ D ₃ O ₂
Molecular Weight:	403.66
Target:	VD/VDR; Endogenous Metabolite
Pathway:	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease
Storage:	4°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 (247.73 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.4773 mL</td> <td>12.3867 mL</td> <td>24.7733 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4955 mL</td> <td>2.4773 mL</td> <td>4.9547 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2477 mL</td> <td>1.2387 mL</td> <td>2.4773 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.4773 mL	12.3867 mL	24.7733 mL	5 mM	0.4955 mL	2.4773 mL	4.9547 mL	10 mM	0.2477 mL	1.2387 mL	2.4773 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.19 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.19 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Calcifediol-d ₃ is a deuterium labeled Calcifediol. Calcifediol, a major circulating metabolite of vitamin D ₃ , is a potent VDR ligand ^{[1][2]} .
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REFERENCES

- Castoldi A, et al. Calcifediol-loaded liposomes for local treatment of pulmonary bacterial infections. Eur J Pharm Biopharm. 2016 Nov 22.
- Wei Zheng, et al. Vitamin D-induced vitamin D receptor expression induces tamoxifen sensitivity in MCF-7 stem cells via suppression of Wnt/β-catenin signaling. Biosci Rep. 2018 Dec 7;38(6):BSR20180595.

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

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