# Product Data Sheet

## 3-O-(2-Aminoethyl)-25-hydroxyvitamin D3

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Cat. No.:	HY-15254	
CAS No.:	163018-26-6	<u>.</u>
Molecular Formula:	C <sub>30</sub> H <sub>51</sub> NO <sub>2</sub>	
Molecular Weight:	457.73	H
Target:	VD/VDR	
Pathway:	Vitamin D Related/Nuclear Receptor	HaN
Storage:	4°C, protect from light, stored under nitrogen	
	* The compound is unstable in solutions, freshly prepared is recommended.	

### SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (218.47 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.1847 mL	10.9235 mL	21.8469 mL	
		5 mM	0.4369 mL	2.1847 mL	4.3694 mL	
		10 mM	0.2185 mL	1.0923 mL	2.1847 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	Vivo1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution					

BIOLOGICAL ACTIVITY				
Description	3-O-(2-Aminoethyl)-25-hydroxyvitamin D3 is a Vitamin D3 derivative.			
IC <sub>50</sub> & Target	Vitamin D/Vitamin D receptor <sup>[1]</sup>			
In Vitro	<b>3-O-(2-Aminoethyl)-25-hydroxyvitamin D3 is a 25-hydroxyvitamin D3 derivative</b> <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

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#### REFERENCES

[1]. Roy A, et al. Aminopropylation of vitamin D hormone (1α,25-dihydroxyvitamin D3), its biological precursors, and other steroidal alcohols: an anchoring moiety for affinity studies of steroids. Steroids (1995), 60(8), 530-3.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA