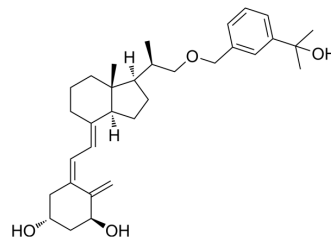


## Atocalcitol

<b>Cat. No.:</b>	HY-32346
<b>CAS No.:</b>	302904-82-1
<b>Molecular Formula:</b>	C <sub>32</sub> H <sub>46</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	494.71
<b>Target:</b>	VD/VDR
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	-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 : 25 mg/mL (50.53 mM); ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0214 mL	10.1069 mL	20.2139 mL
	5 mM	0.4043 mL	2.0214 mL	4.0428 mL
	10 mM	0.2021 mL	1.0107 mL	2.0214 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1.25 mg/mL (2.53 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 1.25 mg/mL (2.53 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1.25 mg/mL (2.53 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Atocalcitol, a vitamin D3 analogue, is used in the study for psoriasis<sup>[1]</sup>.

### REFERENCES

- [1]. Xuan Xu, et al. The Immunogenetics of Psoriasis and Implications for Drug Repositioning. Int J Mol Sci. 2017 Dec 8;18(12):2650.
- [2]. Nicklas H Staunstrup, et al. A Sleeping Beauty DNA transposon-based genetic sensor for functional screening of vitamin D3 analogues. BMC Biotechnol. 2011 Apr

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

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