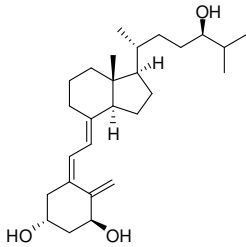




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	2516	<b>Batch Number:</b>	1
<b>Product Name:</b>	Tacalcitol		
<b>Alternative Name(s):</b>	PRI 2191		
<b>IUPAC Name:</b>	(1R,3S,Z)-5-((E)-2-((1R,3aS,7aR)-1-((2R,5R)-5-Hydroxy-6-methylheptan-2-yl)-7a-methylidihydro-1H-inden-4(2H,5H,6H,7H,7aH)-ylidene)ethylidene)-4-methylenecyclohexane-1,3-diol		
<b>Structure:</b>			<b>Amount:</b>
<b>CAS number(s):</b>	57333-96-7 (parent), 93129-94-3 (mono hydrate)		
<b>Molecular Formula:</b>	C27H44O3	<b>Molecular Weight:</b>	416.64
<b>Batch Molecular Formula:</b>	C27H44O3.1H2O	<b>Batch Molecular Weight:</b>	434.65
<b>Appearance:</b>	White solid	<b>Observed mp:</b>	93.6 - 95.8 °C
<b>TLC (R<sub>f</sub>):</b>	0.57	DCM/MeOH (9:1)	
<b>Chemical Purity:</b>	98.6%		
<b>Optical Purity (ee):</b>	Optically pure		
<b><sup>1</sup>H-NMR:</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 74.61, H 10.67, N 0.00; Found: C 74.67, H 10.75, N 0.00		
<b>Storage Conditions:</b>	Store at -20 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>
	Water		Not Tested
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	43.5	>100 mM
	EtOH		Not Tested
<b>Remarks:</b>	The material is suspected to be unstable in solution, it is recommended to prepare fresh stock solutions prior to each experiment.		
<b>QC Date:</b>	11-12-2020		

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**