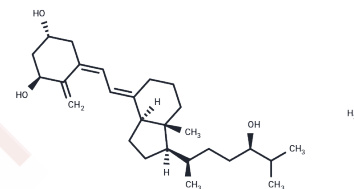


## Tacalcitol monohydrate

## Chemical Properties

CAS No. :	93129-94-3
Formula:	C <sub>27</sub> H <sub>46</sub> O <sub>4</sub>
Molecular Weight:	434.65
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Tacalcitol monohydrate (Curatoderm monohydrate), a vitamin D3 analog that promotes bone development by regulating calcium ions, can be used to study psoriasis.
Targets (IC50)	Vitamin, Cysteine Protease

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3007 mL	11.5035 mL	23.007 mL
5 mM	0.4601 mL	2.3007 mL	4.6014 mL
10 mM	0.2301 mL	1.1504 mL	2.3007 mL
50 mM	0.046 mL	0.2301 mL	0.4601 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Koyano K, Saitoh Y, Oshida J, Takimoto-Kamimura M. Dimer and superstructure of the active form of a vitamin D3; 1 alpha,24(R) dihydroxy-vitamin D3 monohydrate, C<sub>27</sub>O<sub>3</sub>H<sub>44</sub>.H<sub>2</sub>O. Chem Pharm Bull (Tokyo). 2001 Mar;49(3):305-11.
- Rostowska-Nadolska et al Vitamin D derivatives: calcitriol and tacalcitol inhibits interleukin-6 and interleukin-8 expression in human nasal polyp fibroblasts. Adv. Med. Sci. (2010) 55 86.
- Fukuoka et al Tacalcitol, an active vitamin D3, induces nerve growth factor in human epidermal keratinocytes. Skin Pharmacol. Appl. Skin Physiol. (2001) 14 226.

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