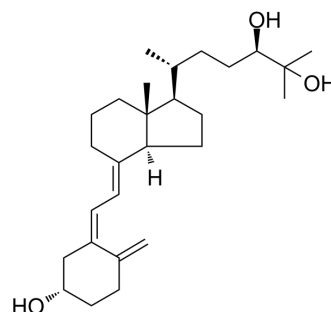


## Secalciferol

Cat. No.:	HY-32343
CAS No.:	55721-11-4
Molecular Formula:	C <sub>27</sub> H <sub>44</sub> O <sub>3</sub>
Molecular Weight:	416.64
Target:	Endogenous Metabolite; VD/VDR
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	-20°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 (240.02 mM; Need ultrasonic)  
Ethanol : 50 mg/mL (120.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.4002 mL	12.0008 mL	24.0015 mL
	5 mM		0.4800 mL	2.4002 mL	4.8003 mL
	10 mM		0.2400 mL	1.2001 mL	2.4002 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Secalciferol ((24R)-24,25-Dihydroxyvitamin D3) is the major active metabolite of Vitamin D. Secalciferol is involved in a wide range of biological functions such as calcium homeostasis, cellular differentiation and proliferation processes, as well as other functions related to the immune system<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

- J Clin Invest. 2018 Aug 1;128(8):3546-3557.
- J Lipid Res. 2019 May;60(5):1058-1064.
- Connect Tissue Res. 2019 Aug 28;1-7.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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