

# Calcifediol

**Catalog No: tcsc0800**



## Available Sizes

**Size:** 5mg

**Size:** 100mg



## Specifications

**CAS No:**

19356-17-3

**Formula:**

$C_{27}H_{44}O_2$

**Pathway:**

Vitamin D Related;Metabolic Enzyme/Protease

**Target:**

VD/VDR;Endogenous Metabolite

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

25-hydroxy Vitamin D3

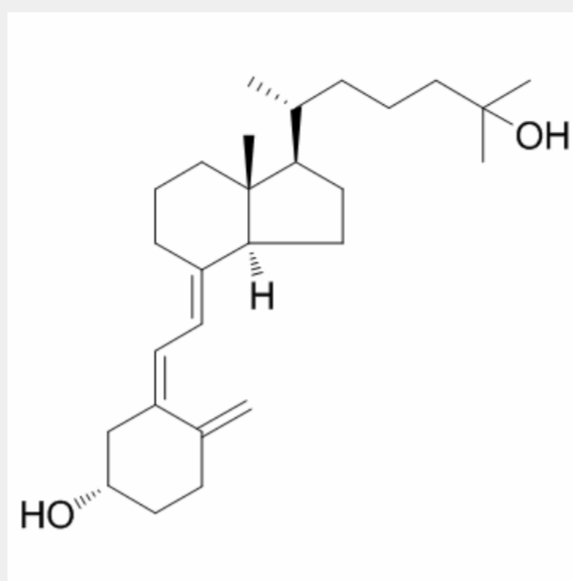
**Observed Molecular Weight:**

400.64

## Product Description

Calcifediol is a major circulating metabolite of vitamin D3, acting as a competitive inhibitor with an apparent  $K_i$  of 3.9  $\mu$ M, suppresses PTH secretion and mRNA ( $ED_{50}=2$  nM).

**In Vitro:** Calcifediol in either liposomes or ethanolic solution has no effect on the release of the proinflammatory cytokine KC from *Pseudomonas*-infected murine epithelial cells. Treatment of infected, human bronchial 16-HBE cells with Calcifediol liposomes results in a significant reduction in bacterial survival<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!