

## Product Information

### Vitamin inhibitor, (24S)-24,25-Dihydroxyvitamin D3, Purity ≥98%

**Cat. No.:** X24-09-YM534

**Size:** 0.5 mg; 1 mg; 2 mg; 5 mg

**MDL:** MFCD11114064

**CAS Number:** 55700-58-8

**Compound CID:** 5283749

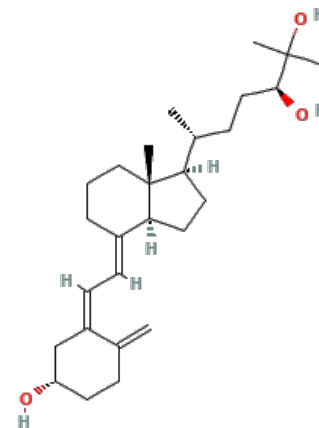
**Synonym:** 55700-58-8; (24S)-24; 25-Dihydroxycholecalciferol;

(3S,6R)-6-[(1R,3aS,4E,7aR)-4-[(2Z)-2-[(5S)

)-5-hydroxy-2-methylidenecyclohexylidene]ethylidene]-7a-

methyl-2,3,3a,5,6,7-hexahydro-1H-inden-1-yl]-2-methylheptane-2,3-diol; Vitamin

inhibitor



**This product is for research use only and is not intended for diagnostic use.**

### Product Information

<b>Description</b>	(24S)-24,25-Dihydroxyvitamin D3 is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting vitamin. The molecular weight of the compound is 416.64, and its molecular formula is C <sub>27</sub> H <sub>44</sub> O <sub>3</sub> .
<b>Molecular Weight</b>	416.64
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>44</sub> O <sub>3</sub>
<b>IUPAC Name</b>	(3S,6R)-6-[(1R,3aS,4E,7aR)-4-[(2Z)-2-[(5S)-5-hydroxy-2-methylidenecyclohexylidene]ethylidene]-7a-methyl-2,3,3a,5,6,7-hexahydro-1H-inden-1-yl]-2-methylheptane-2,3-diol
<b>InChI</b>	InChI=1S/C27H44O3/c1-18-8-12-22(28)17-21(18)11-10-20-7-6-16-27(5)23(13-14-24(20)27)19(2)9-15-25(29)26(3,4)30/h10-11,19,22-25,28-30H,1,6-9,12-17H2,2-5H3/b20-10+,21-11-/t19-,22+,23-,24+,25+,27-/m1/s1
<b>InChI Key</b>	FCKJYANJHNLEEP-WQUHCOROSA-N
<b>Canonical SMILES</b>	CC(CCC(C(C)(C)O)O)C1CCC2C1(CCCC2=CC=C3CC(CCC3=C)O)C
<b>Isomeric SMILES</b>	[2H]C([2H])([2H])C([C@@H](C)/C=C/[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CCC/C2=C\C=C/C3\C[C@H](C[C@@H](C3=C)O)O)C)(C([2H])([2H])[2H])O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.



<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	(24S)-24,25-Dihydroxyvitamin D3 can be used for its effects on cell growth and differentiation.
<b>Storage</b>	Store at -20°C, and keep desiccated.

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