

Product Name	: 25-Hydroxycholesterol
Synonyms	: —
Cat No.	: M19577
CAS Number	: 2140-46-7
Molecular Formula	: C ₂₇ H ₄₆ O ₂
Formula Weight	: 402.65
Chemical Name	: —
Description	: 25-Hydroxycholesterol is a steroid derivative that suppresses the cleavage of sterol regulatory element binding proteins (SREBPs). It inhibits HMG-CoA reductase and so it also plays a significant role in the in vivo regulation of cholesterol biosynthesis after an acute dietary cholesterol challenge. 25-hydroxycholesterol is a potent (EC ₅₀ ≈65 nM) and selective suppressor of IgA production by B cells.
Pathway	: Others
Target	: Other Targets
Receptor	: other; HMG-CoA Reductase
Solubility	: Ethanol: 20 mg/mL; Chloroform: 50 mg/mL
SMILES	: <chem>C[C@H](CCCC(C)C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C[C@H]4[C@@]2(C)C[C@H]3CC[C@]12C</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. McDonald JG et al. Editorial: 25-Hydroxycholesterol: a new life in immunology. J Leukoc Biol. 2010 Dec;88(6):1071-2.