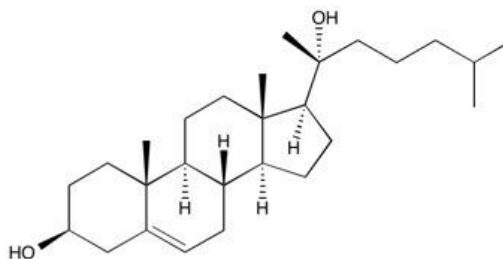


20(S)-Hydroxycholesterol, Smoothened agonist

| Catalog | Unit |
|---------------|------|
| TBI4540 - 1MG | 1 mg |
| TBI4540 - 5MG | 5 mg |

Product Details

Formal Name: 5-Cholesten-3 β , 20 α -diol
Molecular Formula: C₂₇H₄₆O₂
Formula Weight: 402.66
CAS Number: 516-72-3
Purity: 98%
Formulation: Powder
Solubility: Soluble in DMSO or in Ethanol
Storage: -20°C
Stability: \geq 1 year.



Applications

Smoothened agonist

Functions

20(S)-Hydroxycholesterol (516-72-3) is an endogenous ligand for the LXR receptor. It has anti-adipogenic and pro-osteogenic effects in mesenchymal stem cells mediated via a non-LXR dependent pathway. The osteogenic effects of 20-(S)-hydroxycholesterol have been shown to be mediated by activation of hedgehog signaling and expression of genes associated with Notch signaling. Activation of Hedgehog is mediated via binding of 20(S)-hydroxycholesterol to Smoothened at a site distinct from the cyclopamine binding site. It has also been found to be an endogenous ligand for the sigma 2 receptor.

Application Procedures

First dissolved in DMSO or ethanol, then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Relative Products

| | |
|---------|---------------------------------------|
| TBI1170 | Mitomycin C |
| TBI1345 | E64, Cysteine protease inhibitor |
| TBI1347 | E64d, Cysteine protease inhibitor |
| TBI2064 | Chromomycin A3 |
| TBI2069 | Cytochalasin B |
| TBI2794 | 5-EDU, DNA Click labeling probe |
| TBI2071 | Cytochalasin D |
| TBI1286 | Bestatin, Aminopeptidase inhibitor |
| TBI2140 | Gemcitabine |
| TBI2058 | Aphidicolin, DNA polymerase Inhibitor |

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