

Product Datasheet

Cholesterol (animal-free) (orb1310316)

| | |
|--------------------------|---|
| Catalog Number | orb1310316 |
| Category | Small Molecules |
| Description | Cholesterol is a fundamental mammalian sterol constituting 20–25% of the plasma membrane, where it modulates fluidity and permeability. As an endogenous ERR α agonist and precursor for hormones and bile acids, it is integral to metabolic studies and is commonly employed in hyperlipidemia research models, both in vitro and in vivo. |
| Target | ROR, Estrogen Receptor/ERR, Liposome, Antibacterial, Endogenous Metabolite, MRP |
| Purity | \geq 98% (May vary between batches) |
| MW | 386.65 |
| Target Areas | Antibacterial Estrogen Receptor/ERR Liposome ROR Endogenous Metabolite MRP |
| Solubility (25°C) | H ₂ O: 1 mg/mL (insoluble); Ethanol: 11.42 mg/mL (29.54 mM); DMSO: 1mg/mL (insoluble) |
| CAS Number | 57-88-5 |
| Formula | C ₂₇ H ₄₆ O |
| SMILES | <chem>C[C@@]12[C@@]([C@]3([C@@]([C@]4(C)C(=CC3)C[C@@H](O)CC4)(CC1)[H])[H])(CC[C@@]2([C@@H](CCCC(C)C)[H])[H]</chem> |
| Storage | -20°C |
| Note | For research use only |
| Expiration Date | 12 months from date of receipt. |

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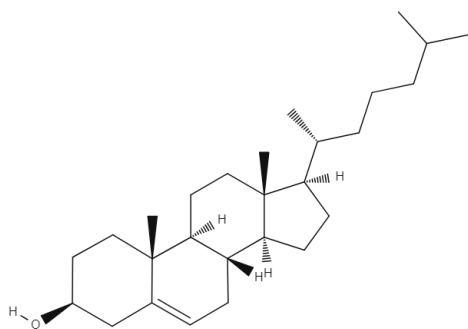
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Chemical structure of orb1310316

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