

## Product Datasheet

### Cholesterol (orb1310316)

<b>Catalog Number</b>	orb1310316
<b>Category</b>	Small Molecules
<b>Description</b>	Cholesterol is a fundamental mammalian sterol constituting 20–25% of the plasma membrane, where it modulates fluidity and permeability. As an endogenous ERR $\alpha$ 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.
<b>Target</b>	Estrogen Receptor/ERR,Liposome,Antibacterial,Endogenous Metabolite,MRP,ROR
<b>Purity</b>	99.94% (May vary between batches)
<b>MW</b>	386.65
<b>Target Areas</b>	Antibacterial Estrogen Receptor/ERR Liposome ROR Endogenous Metabolite MRP
<b>Solubility (25°C)</b>	H2O: 1 mg/mL (insoluble);Ethanol:11.42 mg/mL (29.54 mM);DMSO: 1mg/mL (insoluble)
<b>CAS Number</b>	57-88-5
<b>Formula</b>	C <sub>27</sub> H <sub>46</sub> O
<b>SMILES</b>	<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>
<b>Storage</b>	store at low temperature,store under nitrogen   Powder: -20°C for 3 years   In solvent: -80°C for 1 year   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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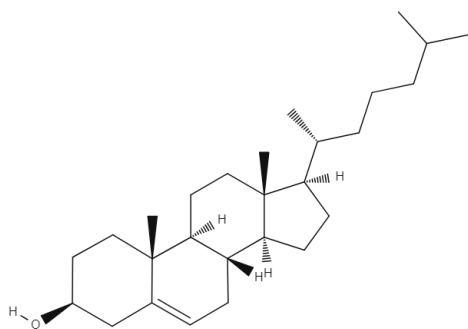
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Chemical structure of orb1310316

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