

## Product Datasheet

### Rifabutin (orb1308428)

<b>Catalog Number</b>	orb1308428
<b>Category</b>	Small Molecules
<b>Description</b>	Rifabutin is a semisynthetic ansamycin antibiotic that potently inhibits bacterial DNA-dependent RNA polymerase, blocking transcription initiation. It is widely used in antimycobacterial research, including in vitro susceptibility assays and in vivo models for studying tuberculosis and MAC infections.
<b>Target</b>	HSP,DNA/RNA Synthesis,Antibiotic,Antibacterial
<b>Purity</b>	99.61%
<b>MW</b>	847
<b>Target Areas</b>	Antibacterial Antibiotic DNA/RNA Synthesis HSP
<b>Solubility (25°C)</b>	DMSO:50 mg/mL (59.03 mM);Ethanol:38 mg/mL (44.86 mM);10% DMSO+40% PEG300+5% Tween 80+45% Saline:2 mg/mL (2.36 mM)
<b>CAS Number</b>	72559-06-9
<b>Formula</b>	C <sub>46</sub> H <sub>62</sub> N <sub>4</sub> O <sub>11</sub>
<b>SMILES</b>	<chem>CO[C@H]1\C=C/O[C@@]2(C)Oc3c(C2=O)c2C4=NC5(CCN(CC(C)C)CC5)NC4=C(NC(=O)\C(C)=C/C=C[C@H](C)[C@H](O)[C@@H](C)[C@@H](O)[C@@H](C)[C@H](OC(C)=O)[C@@H]1C)C(=O)c2c(O)c3C</chem>
<b>Storage</b>	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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