

## Product Datasheet

### Rifabutin (orb1224134)

<b>Catalog Number</b>	orb1224134
<b>Category</b>	Small Molecules
<b>Description</b>	A semisynthetic ansamycin antibiotic with potent antimycobacterial properties. Bacterial Infection Approved(In Vitro):Rifabutin is primarily bactericidal antibiotic drug used to treat tuberculosis. Its effect on bacteria is based on the DNA-dependent RNA polymerase blocking drug rifamycin S., a semi-synthetic derivative. It is effective, for example, in highly resistant mycobacteria, Gram-positive bacteria (and some are effective against Gram-negative bacteria), but also against Mycobacterium tuberculosis, M. leprae, and M. avium intracellulare. Rifabutin is an antibiotic; antitumor. Rifabutin interferes with HSP-90 molecular chaperone, enhances ubiquitination and protein degradation, and inactivates bacterial RNA polymerase.
<b>Target</b>	Antibacterial
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	847.0047
<b>Target Areas</b>	Endoplasmin HSP90 RNAPolymerase
<b>Solubility (25°C)</b>	10 mM in DMSO
<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>	O=C1c2c(O)c(C)c3c(C4=O)c2C5=NC6(CCN(CC(C)C)CC6)NC5=C1NC(/C(C)=C/C=C/[C@@H]([C@H](O)[C@H]([C@@H](O)[C@H]([C@@H]([C@H](C)[C@@H](OC)/C=C/O[C@]4(O3)C)OC(C)=O)C)C)C)=O

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<b>Chemical Name</b>	Spiro[9,4-(epoxypentadeca[1,11,13]trienimino)-2H-furo[2',3':7,8]naphth[1,2-d]imidazole-2,4'-piperidine]-5,10,26(3H,9H)-trione, 16-(acetyloxy)-6,18,20-trihydroxy-14-methoxy-7,9,15,17,19,21,25-heptamethyl-1'-(2-methylpropyl)-, (9S,12E,14S,15R,16S,17R,18R,19
<b>Storage</b>	Storage temperature: -20°C. Stability: ≥ 2 years
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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