

## Product Datasheet

### Amikacin (orb1310051)

<b>Catalog Number</b>	orb1310051
<b>Category</b>	Small Molecules
<b>Description</b>	Amikacin is a semisynthetic aminoglycoside antibiotic, derived from kanamycin, with broad-spectrum activity. It is widely used in research to study antibacterial mechanisms and efficacy, both in vitro against resistant bacterial strains and in vivo within animal infection models.
<b>Target</b>	Antibacterial,ribosome,Antibiotic
<b>Purity</b>	95.00% (May vary between batches)
<b>MW</b>	585.6
<b>Target Areas</b>	Antibacterial Antibiotic ribosome
<b>Solubility (25°C)</b>	DMSO:45 mg/mL (76.84 mM);H2O:50 mg/mL (85.38 mM)
<b>CAS Number</b>	37517-28-5
<b>Formula</b>	C <sub>22</sub> H <sub>43</sub> N <sub>5</sub> O <sub>13</sub>
<b>SMILES</b>	<chem>NCC[C@H](O)C(=O)N[C@@H]1C[C@H](N)[C@@H](O[C@H]2O[C@H](CN)[C@@H](O)[C@H](O)[C@H]2O)[C@H](O)[C@H]1O[C@H]1O[C@H](CO)[C@@H](O)[C@H](N)[C@H]1O</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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