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## DATASHEET

Tobramycin

### Product overview

<b>Name</b>	Tobramycin
<b>Cat No</b>	HB4564
<b>Biological action</b>	Antibiotic
<b>Purity</b>	>97%
<b>Description</b>	Aminoglycoside antibiotic

### Biological Data

<b>Biological description</b>	Aminoglycoside antibiotic which binds to the 30S and 50S ribosomal subunits to inhibit translocation.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	O-3-Amino-3-deoxy- $\alpha$ -D-glucopyranosyl-(1-6)-O-[2,6-diamino-2,3,6-trideoxy- $\alpha$ -D-ribohexopyranosyl-(1-4)]-2-deoxy-D-streptomine
<b>Molecular Weight</b>	467.52
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>37</sub> N <sub>5</sub> O <sub>9</sub>
<b>CAS Number</b>	32986-56-4
<b>PubChem identifier</b>	36294
<b>SMILES</b>	<chem>C1[C@@H]([C@H]([C@@H]([C@H]([C@@H]1N)O[C@@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)N)O)O)[C@@H]3[C@@H](C[C@@H]([C@H]([C@H](O3)CN)O)N)N</chem>
<b>InChiKey</b>	NLVFBUXFDBBNBW-PBSUHMDJSA-N
<b>MDL number</b>	MFCD00077885
<b>Appearance</b>	White to off-white

### References

#### Protection by antibiotics against myeloperoxidase-dependent cytotoxicity to lung epithelial cells in vitro

Woods et al (1993) J clin invest. 91(1)

**PubMedID** [8380814](#)

#### In vitro studies of tobramycin, an aminoglycoside antibiotic

Neu et al (1972) Antimicrob Agents Chemother. 1(1)

**PubMedID** [4670427](#)

