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DATASHEET

Tobramycin

Product overview

Name	Tobramycin
Cat No	HB4564
Purity	>97%
Description	Aminoglycoside antibiotic

Biological Data

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

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

Chemical Data

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

