

Product Name: Netilmicin sulfate

Catalog No.: 6339

Batch No.: 1

CAS Number: 56391-57-2

IUPAC Name: O-3-Deoxy-4-C-methyl-3-(methylamino)-β-L-arabinopyranosyl-(1-6)-O-[2,6-diamino-2,3,4,6-tetradeoxy-α-D-glycero-hex-4-enopyranosyl-(1-4)]-2-deoxy-N¹-ethyl-D-streptamine sestersulfate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₄₁N₅O₇·2.5H₂SO₄·4H₂O

Batch Molecular Weight: 792.84

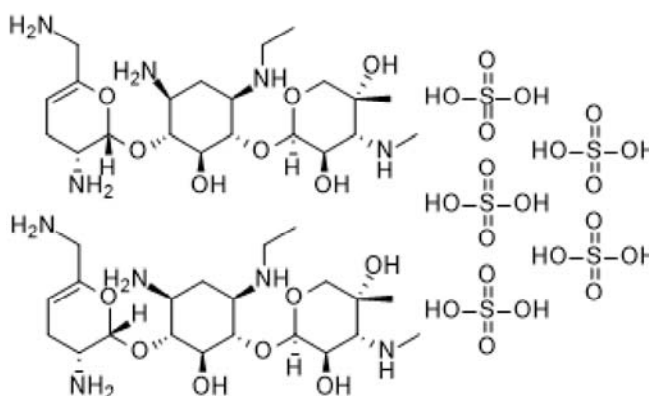
Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

XXXX



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Carbon Hydrogen Nitrogen

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Description:

Binds the transactivation response element (TAR) of HIV-1 ($K_d = 1.35 \mu\text{M}$) and inhibits its interaction with Tat. Exhibits >35-fold selectivity for HIV-1 TAR over HIV-2 TAR or A-site and RRE RNA. Inhibits Tat-mediated HIV-1 activation and replication in T-cells in vitro. Also semisynthetic aminoglycoside antibiotic.

Physical and Chemical Properties:

Batch Molecular Formula: $\text{C}_{21}\text{H}_{41}\text{N}_5\text{O}_7 \cdot 2.5\text{H}_2\text{SO}_4 \cdot 4\text{H}_2\text{O}$

Batch Molecular Weight: 792.84

Physical Appearance: White solid

Batch Molecular Structure:

XXXX

Storage: Desiccate at RT. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

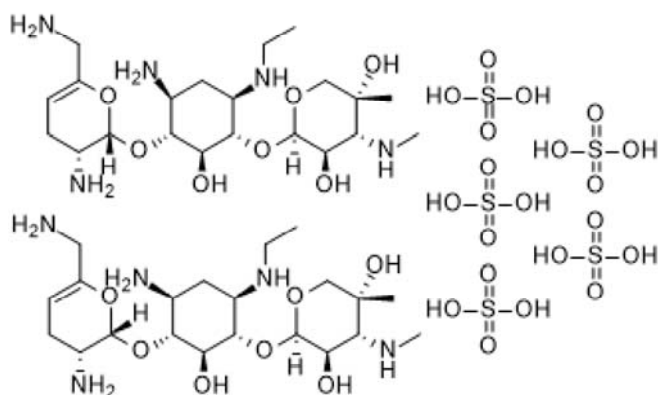
Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.



References:

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Connelly *et al* (2016) The emerging role of RNA as a therapeutic target for small molecules. *Cell.Chem.Biol.* **23** 1077. PMID: 27593111. www.tocris.com
 Stefzer *et al* (2011) Discovery of selective bioactive small molecules by targeting an RNA dynamic ensemble. *Nat.Chem.Biol.* **7** 553. PMID: 21706033.

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