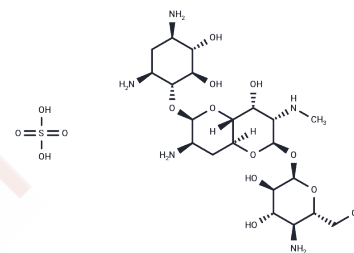


Apramycin sulfate

Chemical Properties

CAS No. :	65710-07-8
Formula:	C ₂₁ H ₄₃ N ₅ O ₁₅ S
Molecular Weight:	637.66
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Apramycin sulfate (Nebramycin II) is an aminoglycoside antibiotic.
Targets(IC50)	Antibacterial,Antibiotic
In vitro	Compared to untreated chicks, 225 mg/L Apramycin completely inhibited mortality and significantly reduced the excretion of Salmonella.
In vivo	At 1/4 MIC, apramycin reduces the growth rate of the test strains in the culture medium and induces a post-antibiotic effect lasting up to 5 hours. It inhibits <i>A. pleuropneumoniae</i> FMV 87-682 with an MIC ₅₀ of 8 mg/l. Apramycin significantly decreases the hemolytic activity of <i>A. pleuropneumoniae</i> and affects capsule production in this isolate and in a <i>P. multocida</i> isolate (type A). Misreading induced by apramycin, involving the incorporation of leucine, isoleucine, and serine, was detected, albeit limited to a narrow scope, in an <i>E. coli</i> cell-free system programmed with poly(U).

Solubility Information

Solubility	H ₂ O: 10 mM,Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	-------------------------------------------------------------------------------------------------------------------------------------------

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5682 mL	7.8412 mL	15.6823 mL
5 mM	0.3136 mL	1.5682 mL	3.1365 mL
10 mM	0.1568 mL	0.7841 mL	1.5682 mL
50 mM	0.0314 mL	0.1568 mL	0.3136 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jensen VF, et al. *J Antimicrob Chemother*, 2006, 58(1), 101-107.

Diarra MS, et al. *Int J Antimicrob Agents*, 1999, 12(3), 229-237.

Kamei C, et al. *Immunopharmacol Immunotoxicol*, 1992, 14(1-2), 191-205.

Tacconi G, et al. *Avian Pathol*, 1987, 16(2), 319-326.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481