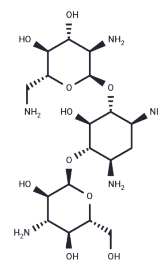


Bekanamycin

Chemical Properties

CAS No. :	4696-76-8
Formula:	C ₁₈ H ₃₇ N ₅ O ₁₀
Molecular Weight:	483.51
Storage:	Store under nitrogen 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	Bekanamycin (Kanamycin B) is an aminoglycoside antibiotic extracted from <i>Streptomyces kanamyceticus</i> , which inhibits a range of Gram-positive and Gram-negative bacteria.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	METHODS: : HEK293 and NIH3T3 were treated with Bekanamycin for 24 hours, and the cell growth inhibition was detected by MTT assay. RESULTS: Bekanamycin did not inhibit the growth of HEK293, with an IC ₅₀ > 500 µg/mL. Bekanamycin inhibited the growth of NIH3T3, with an IC ₅₀ =139.6 µM. [1] [2]

Solubility Information

Solubility	DMSO: 1 mg/mL (2.07 mM), Sonication and heating to 80°C are recommended. H ₂ O: 247.5 mg/mL (511.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0682 mL	10.341 mL	20.6821 mL
5 mM	0.4136 mL	2.0682 mL	4.1364 mL
10 mM	0.2068 mL	1.0341 mL	2.0682 mL
50 mM	0.0414 mL	0.2068 mL	0.4136 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

Ahammed KS, et al. DNA Structural Alteration Leading to Antibacterial Properties of 6-Nitroquinoxaline Derivatives. J Med Chem. 2019 Sep 12;62(17):7840-7856.

Zhang F, et al. Design, synthesis and antibacterial activities of 5-(pyrazin-2-yl)-4H-1,2,4-triazole-3-thiol derivatives containing Schiff base formation as FabH inhibitory. Bioorg Med Chem Lett. 2014 Jan 1;24(1):90-5.

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