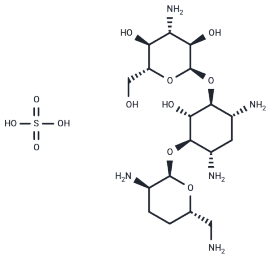
Data Sheet (Cat.No.T21036)

TargetMol

Dibekacin sulfate

Chemical Properties



CAS No. : 58580-55-5

Formula: C18H39N5O12S

Molecular Weight: 549.59

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Dibekacin sulfate, an analog of KANAMYCIN, has antitubercular as well as broad-spectrum antimicrobial properties.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8195 mL	9.0977 mL	18.1954 mL
5 mM	0.3639 mL	1.8195 mL	3.6391 mL
10 mM	0.182 mL	0.9098 mL	1.8195 mL
50 mM	0.0364 mL	0.182 mL	0.3639 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

Zhang S, Chen T, Jia J, Guo L, Zhang H, Li C, Qiao R. Establishment of a highly efficient conjugation protocol for Streptomyces kanamyceticus ATCC12853. Microbiologyopen. 2018 Nov 17:e747. doi: 10.1002/mbo3.747. [Epub ahead of print] PubMed PMID: 30449069.

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Ohtsuru T, Morita Y, Murata Y, Munakata Y, Itoh M, Kato Y, Okazaki K. Custom-made, antibiotic-loaded, acrylic cement spacers using a dental silicone template for treatment of infected hip prostheses. Eur J Orthop Surg Traumatol. 2018 May;28(4):615-620. doi: 10.1007/s00590-017-2117-3. Epub 2018 Jan 13. PubMed PMID: 29332203.

Uechi K, Tada T, Shimada K, Nakasone I, Sonozaki T, Kirikae T, Fujita J. Emergence of ArmA, a 16S rRNA methylase in highly aminoglycoside-resistant clinical isolates of Klebsiella pneumoniae and Klebsiella oxytoca in Okinawa, Japan. J Infect Chemother. 2018 Jan;24(1):68-70. doi: 10.1016/j.jiac.2017.09.006. Epub 2017 Oct 21. PubMed PMID: 29066218.