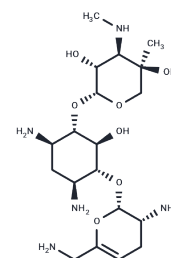


## Sisomicin

## Chemical Properties

CAS No. :	32385-11-8
Formula:	C <sub>19</sub> H <sub>37</sub> N <sub>5</sub> O <sub>7</sub>
Molecular Weight:	447.53
Storage:	Keep away from direct sunlight, 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	Sisomicin, a broad-spectrum aminoglycoside antibiotic isolated from *Micromonospora inyoensis*, is highly active against staphylococci.
Targets(IC50)	Antibacterial, Antibiotic

## Solubility Information

Solubility	DMSO: 80 mg/mL (178.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2345 mL	11.1724 mL	22.3449 mL
5 mM	0.4469 mL	2.2345 mL	4.469 mL
10 mM	0.2234 mL	1.1172 mL	2.2345 mL
50 mM	0.0447 mL	0.2234 mL	0.4469 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

Crowe CC, et al. Sisomicin: evaluation in vitro and comparison with gentamicin and tobramycin. *Antimicrob Agents Chemother.* 1973 Jan;3(1):24-8.

P Noone, et al. Sisomicin, netilmicin and dibekacin. A review of their antibacterial activity and therapeutic use. *Drugs.* 1984 Jun;27(6):548-78.

Le Moli S, et al. In vitro and in vivo effect of sisomicin and gentamycin on polymorphonuclear chemotaxis and phagocytosis. *Int J Immunopharmacol.* 1983;5(1):49-54.

Karaiskos I, Souli M, Giamarellou H. Plazomicin: an investigational therapy for the treatment of urinary tract infections. *Expert Opin Investig Drugs.* 2015;24(11):1501-11. doi: 10.1517/13543784.2015.1095180. Epub 2015 Sep 30. Review. PubMed PMID: 26419762.

**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