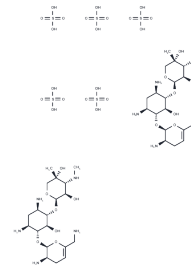


## Sisomicin Sulfate

### Chemical Properties

CAS No. :	53179-09-2
Formula:	2C <sub>19</sub> H <sub>37</sub> N <sub>5</sub> O <sub>7</sub> ·5H <sub>2</sub> SO <sub>4</sub>
Molecular Weight:	1385.43
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Sisomicin Sulfate (Pathomycin) is the sulfate salt form of sisomicin, a broad-spectrum aminoglycoside antibiotic isolated from <i>Micromonospora inyoensis</i> . Sisomicin is structurally similar to gentamicin but has a unique unsaturated diamino sugar. Of the aminoglycoside antibiotics, sisomicin has the greatest activity against gram-positive bacteria.
Targets(IC50)	Antibacterial, Antibiotic

### Solubility Information

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

	1mg	5mg	10mg
1 mM	0.7218 mL	3.609 mL	7.218 mL
5 mM	0.1444 mL	0.7218 mL	1.4436 mL
10 mM	0.0722 mL	0.3609 mL	0.7218 mL
50 mM	0.0144 mL	0.0722 mL	0.1444 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

Hendriks JG, et al. Biomaterials. 2004 Feb;25(3):545-56.

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