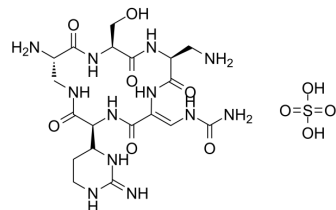


## Capreomycin sulfate

Cat. No.:	HY-17566
CAS No.:	1405-37-4
Molecular Formula:	C <sub>19</sub> H <sub>34</sub> N <sub>12</sub> O <sub>11</sub> S
Molecular Weight:	638.61
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : ≥ 37 mg/mL (57.94 mM) * "≥" means soluble, but saturation unknown.																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.5659 mL</td> <td>7.8295 mL</td> <td>15.6590 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3132 mL</td> <td>1.5659 mL</td> <td>3.1318 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1566 mL</td> <td>0.7830 mL</td> <td>1.5659 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.5659 mL	7.8295 mL	15.6590 mL	5 mM	0.3132 mL	1.5659 mL	3.1318 mL	10 mM	0.1566 mL	0.7830 mL	1.5659 mL
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Please refer to the solubility information to select the appropriate solvent.																						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (156.59 mM); Clear solution; Need ultrasonic																					

### BIOLOGICAL ACTIVITY

Description	Capreomycin sulfate is a peptide antibiotic used in combination with other antibiotics for MDR-tuberculosis.
IC <sub>50</sub> & Target	Aminoglycoside

### CUSTOMER VALIDATION

- ACS Chem Biol. 2021 Dec 15.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. Johansen SK, et al. Capreomycin binds across the ribosomal subunit interface using tlyA-encoded 2'-O-methylations in 16S and 23S rRNAs. Mol Cell. 2006 Jul 21;23(2):173-82.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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