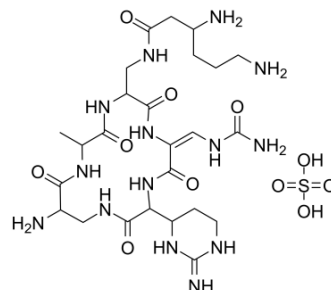


## Capreomycin sulfate

<b>Cat. No.:</b>	HY-17566	
<b>CAS No.:</b>	1405-37-4	
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>46</sub> N <sub>14</sub> O <sub>11</sub> S	
<b>Molecular Weight:</b>	750.78	
<b>Target:</b>	Bacterial; Antibiotic	
<b>Pathway:</b>	Anti-infection	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 37 mg/mL (49.28 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.3319 mL	6.6597 mL	13.3195 mL
	5 mM	0.2664 mL	1.3319 mL	2.6639 mL
	10 mM	0.1332 mL	0.6660 mL	1.3319 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Capreomycin sulfate is a peptide antibiotic, commonly grouped with the aminoglycosides, which is given in combination with other antibiotics for MDR-tuberculosis. IC50 value: Target: The drug should not be given with streptomycin or other drugs that may damage the auditory vestibular nerve. Patients on this drug will often require audiology tests. It is a cyclic peptide. Capreomycin is administered intramuscularly and shows bacteriostatic activity.

### REFERENCES

[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.**