

Product Name:	Capreomycin
Product Number:	C162
CAS Number:	11003-38-6
Molecular Formula:	C ₂₅ H ₄₄ N ₁₄ O ₇ (for IB)
Molecular Weight:	652.7 (for IB)
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Capreomycin is a complex of cyclic pentopeptides isolated from <i>Streptomyces capreolus</i>, first reported in 1962. The complex has two major components, IA and IB, with an exocyclic lysine residue and two minor delysinyll components, IIA and IIB. Capreomycin is a potent antibiotic with activity against mycobacteria, Gram positive and Gram negative organisms.</p> <p>Capreomycin is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	Capreomycin acts by binding to the 23S ribosomal subunit, disrupting protein synthesis.
References:	<p>Chemical and biological properties of capreomycin and other peptide antibiotics. Herr E.B. Antimicrob. Agents Chemother. 1962, 1963, 201.</p> <p>Molecular basis for the selectivity of antituberculosis compounds capreomycin and viomycin. Akbergenov R. et al. Antimicrob. Agents Chemother. 2011, 55, 4712.</p>