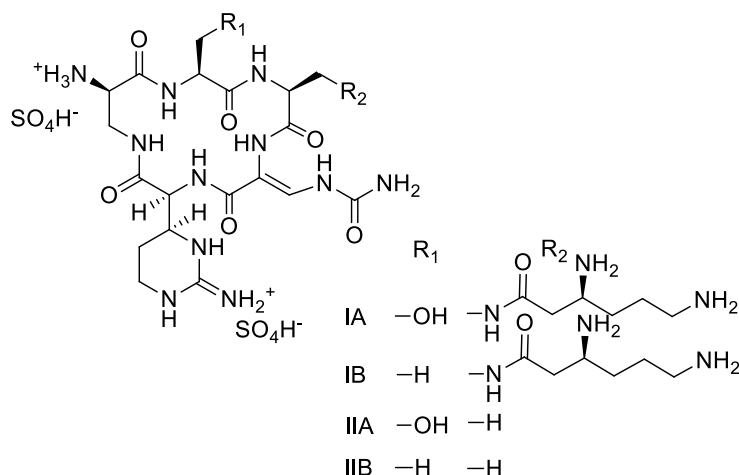


## Capreomycin sulfate

Code No.: **BIA-C1455**

Pack sizes: **5 mg, 25 mg**



Synonyms : Caprocin

## Specifications

CAS #	: 1405-37-4
Molecular Formula	: C <sub>25</sub> H <sub>48</sub> N <sub>14</sub> O <sub>13</sub> S <sub>2</sub> (for IB)
Molecular Weight	: 816.9 (for IB)
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

## Application Notes

Capreomycin sulfate is a salt of a complex of cyclic pentopeptides isolated from *Streptomyces capreolus*, first reported in 1962. The sulfate salt is the most commonly accessible formulation of capreomycin and is used for pharmaceutical applications. The complex has two major components, IA and IB, with an exocyclic lysine residue and two minor delysinyI components, IIA and IIB. Capreomycin is a potent antibiotic with activity against mycobacteria, Gram positive and Gram negative organisms. Capreomycin acts by binding to the 23S ribosomal subunit, disrupting protein synthesis.

## References

1. Chemical and biological properties of capreomycin and other peptide antibiotics. Herr E.B. Antimicrob. Agents Chemother. 1962, 1963, 201.
2. Molecular basis for the selectivity of antituberculosis compounds capreomycin and viomycin. Akbergenov R. et al., Antimicrob. Agents Chemother. 2011, 55, 4712.