

Cefteram PRODUCT DATA SHEET

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Product Name:	Cefteram
Product Number:	C102
CAS Number:	82547-58-8
Molecular Formula:	C ₁₆ H ₁₇ N ₉ O ₅ S ₂
Molecular Weight:	479.49 g/mol
Form:	Powder
Solubility:	Acetonitrile: Very soluble Chloroform: Very soluble Ethanol: Very soluble Water: Practically insoluble
Storage Conditions:	-20 °C
Description:	Cefteram is a third generation cephalosporin antibiotic. Cefteram is freely soluble in methanol, ethanol, chloroform, and acetonitrile. In water, cefteram is essentially insoluble.
Mechanism of Action:	Like β -lactams, cephalosporins interfere with PBP (penicillin binding protein) activity involved in the final phase of peptidoglycan synthesis. PBP's are enzymes which catalyze a pentaglycine crosslink between alanine and lysine residues providing additional strength to the cell wall. Without a pentaglycine crosslink, the integrity of the cell wall is severely compromised and ultimately leads to cell lysis and death. Resistance to cephalosporins is commonly due to cells containing plasmid encoded β -lactamases.
Spectrum:	Like many third generation cephalosporins, cefteram is mostly active against gram negative bacteria especially those which cause meningitis and gonorrhea.
References:	Georgopapadakou, N. H. "Mechanisms of Action of Cephalosporin 3'- quinolone Esters, Carbamates, and Tertiary Amines in Escherichia Coli." <i>American Society for Microbiology</i> 37.3 (1992): 559-65. <i>Antimicrobial</i> <i>Agents and Chemotherapy</i> . Web. 21 Aug. 2012.

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