Product Name: Cefozopran Hydrochloride
Product Number: C099
CAS Number: 113981-44-5
Molecular Formula: C\textsubscript{19}H\textsubscript{17}N\textsubscript{9}O\textsubscript{5}S\textsubscript{2}•HCl
Molecular Weight: 551.99
Form: Powder
Solubility: is freely soluble in DMSO and slightly soluble in water.
Storage Conditions: -20°C
Description: Cefozopran Hydrochloride is a broad-spectrum, fourth-generation cephalosporin that interferes with bacterial peptidoglycan synthesis. The compound is freely soluble in DMSO and slightly soluble in water.
Mechanism of Action: Similar to 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: Cefozopran is a broad-spectrum antibiotic targeting a wide range of Gram-positive and Gram-negative bacteria including Pseudomonas aeruginosa.
Microbiology Applications: Cefozopran has been shown to be useful against the multi drug resistant MRSA when used in combination with other antibiotics including vancomycin and teicoplanin.
References:

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/