

Product Data Sheet

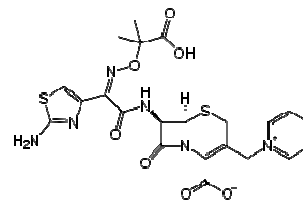
Cat # ABT-070-01	Ceftazidime (Pharma Grade)	Size: 1 g
Cat # ABT-070-10	Ceftazidime (Pharma Grade)	Size: 10 g (or bulk)

General Information

Ceftazidime is a third-generation cephalosporin antibiotic. Like other third-generation cephalosporins, it has broad spectrum activity against Gram-positive and Gram-negative bacteria. Unlike most third-generation agents, it is active against *Pseudomonas aeruginosa*, however it has weaker activity against Gram-positive microorganisms and is not used for such infections. Ceftazidime pentahydrate is marketed under various trade names including Cefzim (Pharco B International), Fortum (GSK), and Fortaz. It is also sometimes referred to as the "Tasmanian Devil," due to its fairly powerful anti-pseudomonal activity.

Ceftazidime is usually reserved for the treatment of infections caused by *Pseudomonas aeruginosa*. It is also used in the empirical therapy of febrile neutropenia, in combination with other antibiotics. It is usually given IV or IM every 8–12 hours (2 - 3 times a day), with dosage varying by the indication, infection severity, and/or renal function of the recipient. Ceftazidime is first line treatment for the rare tropical infection, melioidosis.

In addition to the syn-configuration of the imino side chain, compared to other third-generation cephalosporins, the more complex moiety (containing two methyl and a carboxylic acid group) confers extra stability to β -lactamase enzymes produced by many Gram-negative bacteria. The extra stability to β -lactamases increases the activity of ceftazidime against otherwise resistant Gram-negative organisms including *Pseudomonas aeruginosa*. The charged pyridinium moiety increases water-solubility.



Molecular Formula:
(C₂₂H₂₂N₆O₇S₂)

A typical Certificate of Analyses

Analysis Test	Specification	Results
Mol wt 636.65 (C ₂₂ H ₃₂ N ₆ O ₁₂ S ₂)		Complies
Description	White or slightly yellow powder	Complies
Identification1	Peak retention time should be the same as the reference	Complies
Identification2 Acidity	3.0 ~ 4.0	3.5
Clarity and color of solution	Should comply	Complies
Pyridine content	≤0.12%	0.1%
Polymer content	≤0.3% counts by ceftazidime	Complies
Loss on drying	13.0% ~ 15.0%	13.5%
Residue on ignition	≤0.2%	0.09%
Heavy metals	≤20ppm	Complies
pyrogen	Should comply	Complies
Sterile	Should comply	Complies
Assay(on dried basis)	≥95%	98.0%
Conclusion	QC Passed	

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-070-01

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