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# Cefoperazone

National Cancer Institute

## Source

National Cancer Institute. *Cefoperazone*. NCI Thesaurus. Code C61663.

A semisynthetic, broad-spectrum, third-generation cephalosporin with antibacterial activity. Cefoperazone binds to and inactivates penicillin-binding proteins (PBPs) located on the inner membrane of the bacterial cell wall. PBPs are enzymes involved in the terminal stages of assembling the bacterial cell wall and in reshaping the cell wall during growth and division. Inactivation of PBPs interferes with the cross-linkage of peptidoglycan chains necessary for bacterial cell wall strength and rigidity. This results in the weakening of the bacterial cell wall and causes cell lysis.