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Cefotaxime

National Cancer Institute

Source

National Cancer Institute. *Cefotaxime*. NCI Thesaurus. Code C354.

A third generation semisynthetic cephalosporin antibiotic with bactericidal activity. Cefotaxime inhibits mucopeptide synthesis by binding to and inactivating penicillin binding proteins thereby interfering with the final transpeptidation step required for cross-linking of peptidoglycan units which are a component of bacterial cell walls. This results in a reduction of cell wall stability and causes cell lysis.