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Cefamandole Nafate

National Cancer Institute

Source

National Cancer Institute. *Cefamandole Nafate*. NCI Thesaurus. Code C47966.

The sodium salt form of cefamandole formyl ester. Cefamandole nafate is a pro-drug that is hydrolyzed by plasma esterases to produce cefamandole, a semi-synthetic beta-lactam, second-generation cephalosporin antibiotic with bactericidal activity.

Cefamandole binds to and inactivates penicillin-binding proteins (PBP) located on the inner membrane of the bacterial cell wall. 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.