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Cefcanel Daloxate

National Cancer Institute

Source

National Cancer Institute. *Cefcanel Daloxate*. NCI Thesaurus. Code C76159.

The cephem double ester prodrug of cefcanel, a semisynthetic third-generation cephalosporin with antibacterial activity. Cefcanel daloxate is hydrolyzed in the intestinal lumen and in the gut wall by esterases to form the active metabolite cefcanel. Cefcanel 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.