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Cefprozil, (Z)-

National Cancer Institute

Source

National Cancer Institute. *Cefprozil, (Z)-*. NCI Thesaurus. Code C80090.

An Z-isomer of a semi-synthetic cephalosporin and a beta-lactam antibiotic with bactericidal activity. Cefprozil's effect is dependent on its binding to penicillin-binding proteins (PBPs) located in the bacterial cytoplasmic membrane. Binding results in the inhibition of the transpeptidase enzymes, thereby preventing cross-linking of the pentaglycine bridge with the fourth residue of the pentapeptide and interrupting consequent synthesis of peptidoglycan chains. As a result, cefprozil inhibits bacterial septum and cell wall synthesis formation.