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Piperacillin Anhydrous

National Cancer Institute

Source

National Cancer Institute. *Piperacillin Anhydrous*. NCI Thesaurus. Code C61891.

The anhydrous form of piperacillin, a broad-spectrum semisynthetic ureidopenicillin antibiotic. Piperacillin binds to penicillin binding proteins (PBP) located on the inner membrane of the bacterial cell wall, thereby interfering with the cross-linking of peptidoglycan chains necessary for bacterial cell wall strength and rigidity. As a result, cell wall synthesis is interrupted leading to a weakened cell wall and eventually cell lysis.