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# Quinacillin

National Cancer Institute

## Source

National Cancer Institute. *Quinacillin*. NCI Thesaurus. Code C80593.

A semisynthetic penicillase-resistant penicillin with antibacterial activity. Quinacillin binds to and inactivates penicillin-binding proteins (PBPs) 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 interrupts bacterial cell wall synthesis and results in the weakening of the bacterial cell wall, eventually causing cell lysis.