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# Mezlocillin

National Cancer Institute

## Source

National Cancer Institute. *Mezlocillin*. NCI Thesaurus. Code C653.

A broad-spectrum, beta-lactam penicillin antibiotic with antibacterial activity. Mezlocillin 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 interrupts the final stage of bacterial cell wall synthesis and results in the weakening of the bacterial cell wall and eventually causing cell lysis.