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Penicillin G Procaine

National Cancer Institute

Source

National Cancer Institute. *Penicillin G Procaine*. NCI Thesaurus. Code C87370.

The procaine salt form of penicillin G, a broad-spectrum, beta-lactam, naturally occurring penicillin antibiotic with antibacterial activity. Penicillin G binds to and inactivates the penicillin binding proteins (PBPs) located inside 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.