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Carbenicillin Phenyl Sodium

National Cancer Institute

Source

National Cancer Institute. *Carbenicillin Phenyl Sodium*. NCI Thesaurus. Code C79421.

The sodium salt of the phenyl ester of carbenicillin, a broad-spectrum, semisynthetic penicillin derivative with antibacterial activity. Following absorption, carbenicillin phenyl sodium is rapidly hydrolyzed to the active carbenicillin, which binds to and inactivates penicillin-binding proteins (PBPs) located on the inner membrane of the bacterial cell wall, thereby preventing the cross-linkage of peptidoglycans, which are critical components of the bacterial cell wall. This leads to a weakening of the bacterial cell wall, eventually causing bacterial cell lysis.