

[Open Peer Review on Qeios](#)

Cloxacillin

National Cancer Institute

Source

National Cancer Institute. *Cloxacillin*. NCI Thesaurus. Code C61688.

A semisynthetic beta-lactamase resistant penicillin antibiotic with antibacterial activity. Cloxacillin 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 an interruption of the bacterial cell wall and causes bacterial cell lysis.