

[Open Peer Review on Qeios](#)

Pivampicillin Probenate

National Cancer Institute

Source

National Cancer Institute. *Pivampicillin Probenate*. NCI Thesaurus. Code C66441.

The probenate salt form of pivampicillin, a semisynthetic, orally active pivalate ester of ampicillin with antibacterial activity. Upon absorption, pivampicillin is hydrolyzed into its active form ampicillin by esterases. Ampicillin 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 and eventually causing cell lysis.