Open Peer Review on Qeios

Apalcillin Sodium

National Cancer Institute

Source

National Cancer Institute. <u>Apalcillin Sodium</u>. NCI Thesaurus. Code C76218.

The sodium salt of a naphthydridine derivative of the broad spectrum, semisynthetic ampicillin with antibacterial activity. Apalcillin specifically binds to and inactivates penicillinbinding 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.