

Open Peer Review on Qeios

Bacitracin

National Cancer Institute

Source

National Cancer Institute. <u>Bacitracin</u>. NCI Thesaurus. Code C295.

A complex of cyclic polypeptide antibiotics, mainly bacitracin A, produced by spore-forming organisms belonging to the licheniformin group of the Bacillus subtilis with antibacterial activity. Bacitracin binds to C55-isoprenyl pyrophosphate, a biphosphate lipid transport molecule that carries the building blocks of the peptidoglycan bacterial cell wall. The binding interferes with the enzymatic dephosphorylation of the C55-isoprenyl pyrophosphate and prevents peptidoglycan synthesis, thereby inhibiting bacterial cell growth.

Qeios ID: Z1T6OZ · https://doi.org/10.32388/Z1T6OZ