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# Amoxicillin-Clavulanate Potassium

National Cancer Institute

## Source

National Cancer Institute. *Amoxicillin-Clavulanate Potassium*. NCI Thesaurus. Code C1023.

A combination of the semisynthetic broad-spectrum antibiotic amoxicillin and the beta-lactamase enzyme inhibitor clavulanate potassium. Clavulanate potassium increases the serum half-life of amoxicillin by inhibiting beta-lactamase-mediated metabolism of amoxicillin. Amoxicillin inhibits bacterial cell wall synthesis by binding to penicillin binding proteins and inhibiting peptidoglycan synthesis, a critical component of bacterial cell walls.