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# Fosfomycin

National Cancer Institute

## Source

National Cancer Institute. *Fosfomycin*. NCI Thesaurus. Code C61772.

A phosphoenolpyruvate analogue and a synthetic broad-spectrum antibiotic with antimicrobial and bactericidal properties. Fosfomycin binds to and inactivates the enzyme enolpyruvate transferase. This leads to an irreversible blockage of the condensation of uridine diphosphate-N-acetylglucosamine with p-enolpyruvate, which is one of the first steps of bacterial cell wall synthesis, thereby eventually causing cell lysis and bacterial cell death.