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# Doripenem

National Cancer Institute

## Source

National Cancer Institute. *Doripenem*. NCI Thesaurus. Code C65470.

A broad-spectrum, carbapenem antibiotic with bactericidal and beta-lactamase resistant activities. Doripenem binds to penicillin binding proteins (PBPs) located on the bacterial cell wall, particularly PBPs 2 and 3, thereby inhibiting the final transpeptidation step in the synthesis of peptidoglycan, an essential component of the bacterial cell wall. Inhibition results in a weakening and eventually lysis of the bacterial cell wall. This agent is two- to 16-fold more potent than imipenem and comparable to ertapenem and meropenem.