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Lincosamide Antibiotic

National Cancer Institute

Source

National Cancer Institute. *Lincosamide Antibiotic*. NCI Thesaurus. Code C82922.

Any synthetic or semi-synthetic derivative of lincomycin, first isolated from a soil actinomycete *Streptomyces lincolnensis*, with antibacterial activity. Lincosamide antibiotics bind to the 23S rRNA in the large 50S subunit of bacterial ribosomes, thereby preventing the peptidyl-tRNA translocation from the A site to the P site. This results in peptidyl-tRNA dissociation from ribosomes, and leads to the release of incomplete proteins, ultimately causing cell death.