

Open Peer Review on Qeios

Doxycycline Hyclate Injection

National Cancer Institute

Source

National Cancer Institute. <u>Doxycycline Hyclate Injection</u>. NCI Thesaurus. Code C125186.

An injectable formulation composed of the hyclate salt form of doxycycline, a synthetic, broad-spectrum tetracycline antibiotic, with antimicrobial activity. Upon injection, doxycycline reversibly binds to the bacterial 30S ribosomal subunit, and blocks the binding of aminoacyl-tRNA to the mRNA-ribosome complex. This leads to an inhibition of bacterial protein synthesis and abrogates bacterial infections.

Qeios ID: 8Z3FXJ · https://doi.org/10.32388/8Z3FXJ