

Open Peer Review on Qeios

Doxycycline Hyclate

National Cancer Institute

Source

National Cancer Institute. <u>Doxycycline Hyclate</u>. NCI Thesaurus. Code C29007.

The hyclate salt form of doxycycline, a synthetic, broad-spectrum tetracycline antibiotic exhibiting antimicrobial activity. Doxycycline hyclate binds reversibly to the 30S ribosomal subunit, possibly to the 50S ribosomal subunit as well, thereby blocking the binding of aminoacyl-tRNA to the mRNA-ribosome complex. This leads to an inhibition of protein synthesis. In addition, this agent has exhibited inhibition of collagenase activity.

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