Open Peer Review on Qeios

Methotrexate

National Cancer Institute

Source

National Cancer Institute. <u>Methotrexate</u>. NCI Thesaurus. Code C642.

An antimetabolite and antifolate agent with antineoplastic and immunosuppressant activities. Methotrexate binds to and inhibits the enzyme dihydrofolate reductase, resulting in inhibition of purine nucleotide and thymidylate synthesis and, subsequently, inhibition of DNA and RNA syntheses. Methotrexate also exhibits potent immunosuppressant activity although the mechanism(s) of actions is unclear.