

Open Peer Review on Qeios

## Plicamycin

National Cancer Institute

## Source

National Cancer Institute. Plicamycin. NCI Thesaurus. Code C658.

An antibiotic isolated from the bacterium Streptomyces plicatus with antineoplastic activity. Plicamycin, also known as mithramycin, binds to the minor groove of DNA at GCrich sites, resulting in inhibition of RNA synthesis; this agent also inhibits mRNA expression, resulting in a reduction in protein synthesis. In addition, plicamycin may inhibit bone resorption by down regulating transcription of c-src, an oncogene involved in bone metabolism and resorption. (NCIO4)

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