

Open Peer Review on Qeios

## Demeclocycline

National Cancer Institute

## Source

National Cancer Institute. <u>Demeclocycline</u>. NCI Thesaurus. Code C47980.

A semi-synthetic, broad-spectrum naphthacene antibiotic produced by the bacterium Streptomyces aureofaciens. Demeclocycline binds to bacterial 30S ribosomal subunit and prevents binding of aminoacyl-tRNA to the mRNA-ribosome complex, thereby inhibiting protein synthesis. Demeclocycline also inhibits the effect of vasopressin on the renal tubules, thereby causing diuresis.

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