

Open Peer Review on Qeios

## Metronidazole Hydrochloride

National Cancer Institute

## Source

National Cancer Institute. <u>Metronidazole Hydrochloride</u>. NCI Thesaurus. Code C48005.

The hydrochloride salt of a synthetic nitroimidazole derivative with antiprotozoal and antibacterial activities. Although its mechanism of action is not fully elucidated, un-ionized metronidazole is readily taken up by obligate anaerobic organisms and is subsequently reduced by low-redox potential electron-transport proteins to an active, intermediate product. Reduced metronidazole causes DNA strand breaks, thereby inhibiting DNA synthesis and bacterial cell growth.

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