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Chloroquine Hydrochloride

National Cancer Institute

Source

National Cancer Institute. *Chloroquine Hydrochloride*. NCI Thesaurus. Code C65318.

The hydrochloride salt of chloroquine, a synthetic quinoline with antimalarial and anti-inflammatory properties. Chloroquine is the most widely used drug against malaria, except for those cases caused by chloroquine resistant *Plasmodium falciparum*. Although the mechanism of action is not fully understood, chloroquine is shown to inhibit the parasitic enzyme heme polymerase that converts the toxic heme into non-toxic hemazoin, thereby resulting in the accumulation of toxic heme within the parasite. Chloroquine may also interfere with the biosynthesis of nucleic acids.