

Product Name:	Chloroquine Phosphate
Product Number:	C142
CAS Number:	50-63-5
Molecular Formula:	$C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$
Molecular Weight:	515.86
Form:	Powder
Appearance:	White or almost white crystalline powder
Source:	Semi-synthetic
pH:	3.8-4.3
Storage Conditions:	2-8 °C
Description:	Chloroquine phosphate is an antimalarial 4-aminoquinoline compound used to inhibit growth of malarial parasites and treat malarial infections.
Mechanism of Action:	Chloroquine enters a malarial parasite and binds to hemozoin, a non-toxic polymer formed from the parasite in an infected red blood cell. The chloroquine:hemozoin complex interferes with normal membrane function leading to build-up of chloroquine:hemozoin complexes and ultimately, cell lysis.
Spectrum:	Chloroquine has been shown to be effective against <i>Plasmodium vivax</i> , <i>Plasmodium malariae</i> , and some strains of <i>Plasmodium falciparum</i> .
References:	Sullivan, David J. et. al. "On the Molecular Mechanism of Chloroquine's Antimalarial Action." PNAS 93 (1996): 11865-1870. Nih.gov. Web. 2 Oct. 2013.