



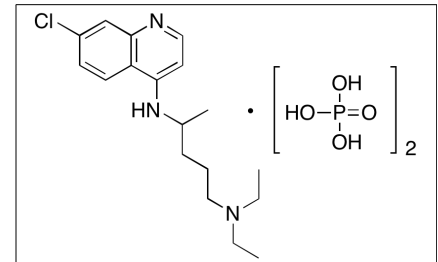
# LKT Laboratories, Inc.

## Chloroquine Diphosphate

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** C2950  
**CAS No.** 50-63-5  
**Chemical Name** N4-(7-Chloro-4-quinolinyl)-N1,N1-diethyl-1,4- pentanediamine diphosphate  
**Synonym** Chloroquine diphosphate, Arechin, Avloclor, Malaquin, Tresochin  
**Formula**  $C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$   
**Formula Wt.** 515.87  
**Melting Point** 193-195°C & 215-218°C  
**Purity** ≥98%  
**Solubility** Soluble in water.



**Bulk quantities available upon request**

Product ID	Size
C2950	25 g
C2950	50 g
C2950	100 g

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Chloroquine is an aminoquinoline antimalarial that is clinically used to treat malaria. Chloroquine's anti-parasitic activity stems from its ability to bind heme, resulting in disruption of membrane function and cell lysis. Chloroquine also displays antiviral, immunosuppressive, and anticancer activities. Chloroquine inhibits the replication of many viruses and also inhibits production of IL-6 and TNF- $\alpha$ . Additionally, chloroquine improves the efficacy of co-administered chemotherapeutics and suppresses the induction of autophagy in vitro.

**References** Liang X, Tang J, Liang Y, et al. Suppression of autophagy by chloroquine sensitizes 5-fluorouracil-mediated cell death in gallbladder carcinoma cells. *Cell Biosci.* 2014 Mar 3;4(1):10. PMID: 24581180.

Hempelmann E. Hemozoin biocrystallization in *Plasmodium falciparum* and the antimalarial activity of crystallization inhibitors. *Parasitol Res.* 2007 Mar;100(4):671-6. PMID: 17111179.

Savarino A, Boelaert JR, Cassone A, et al. Effects of chloroquine on viral infections: an old drug against today's diseases? *Lancet Infect Dis.* 2003 Nov;3(11):722-7. PMID: 14592603.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.