

## DATASHEET

### Chloroquine diphosphate

#### Product overview

<b>Name</b>	Chloroquine diphosphate
<b>Cat No</b>	HB5073
<b>Biological action</b>	Activator
<b>Description</b>	Antimalarial. Apoptosis and autophagy inhibitor.

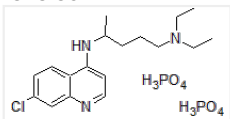
#### Biological Data

<b>Biological description</b>	Antimalarial compound with various biological actions (anti-inflammatory, immunomodulatory, antiviral, anticancer etc.). It inhibits cell growth, proliferation and viability and also induces apoptosis and autophagy.  It inhibits viral replication to show antiviral activity and inhibits SARS-CoV-2 viral infection (COVID-19) in vitro.
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#### Solubility & Handling

<b>Storage instructions</b>	Room temperature (desiccate)
<b>Solubility overview</b>	Soluble in water (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

#### Chemical Data

<b>Chemical name</b>	N4-(7-Chloro-4-quinolinyl)-N1,N1-dimethyl-1,4-pentanediamine diphosphate salt
<b>Molecular Weight</b>	515.86
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>26</sub> ClN <sub>3</sub> ·2H <sub>3</sub> PO <sub>4</sub>
<b>CAS Number</b>	50-63-5
<b>PubChem identifier</b>	64927
<b>SMILES</b>	CCN(CC)CCCC(C)NC2=CC=NC1=CC(Cl)=CC=C12.O=P(O)(O)O.O=P(O)(O)O
<b>InChi</b>	InChI=1S/C18H26ClN3.2H3O4P/c1-4-22(5-2)12-6-7-14(3)21-17-10-11-20-18-13-15(19)8-9-16(17)18;2*1-5(2,3)4/h8-11,13-14H,4-7,12H2,1-3H3,(H,20,21);2*(H3,1,2,3,4)
<b>InChiKey</b>	QKICWELGRMTQCR-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00069852

#### References

##### Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro

Wang M *et al* (2020) Cell Res 30(3)

PubMedID

32020029

### **Chloroquine potentiates the anti-cancer effect of 5-fluorouracil on colon cancer cells**

Sasaki K *et al* (2010) BMC Cancer 10

**PubMedID** [20630104](#)

### **Effect of chloroquine on human lymphocyte proliferation**

Bygbjerg IC *et al* (1986) Trans R Soc Trop Med Hyg 80(2)

**PubMedID** [3787684](#)

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