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DATASHEET

Chloroquine diphosphate

Product overview

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

Biological Data

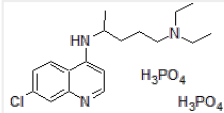
Biological description Antimalarial compound with various biological actions (anti-inflammatory, immunomodulatory, antiviral, anticancer etc.). It inhibits cell growth, proliferation and viability and also induces apoptosis and autophagy.

It inhibits viral replication to show antiviral activity and inhibits SARS-CoV-2 viral infection (COVID-19) in vitro.

Solubility & Handling

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

Chemical Data

Chemical name	N4-(7-Chloro-4-quinolinyl)-N1,N1-dimethyl-1,4-pentanediamine diphosphate salt
Molecular Weight	515.86
Chemical structure	
Molecular Formula	$C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$
CAS Number	50-63-5
PubChem identifier	64927
SMILES	<chem>CCN(CC)CCCC(C)NC2=CC=NC1=CC(Cl)=CC=C12.O=P(O)(O)O.O=P(O)(O)O</chem>
InChi	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)
InChiKey	QKICWELGRMTQCR-UHFFFAOYSA-N
MDL number	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](https://pubmed.ncbi.nlm.nih.gov/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](#)
