

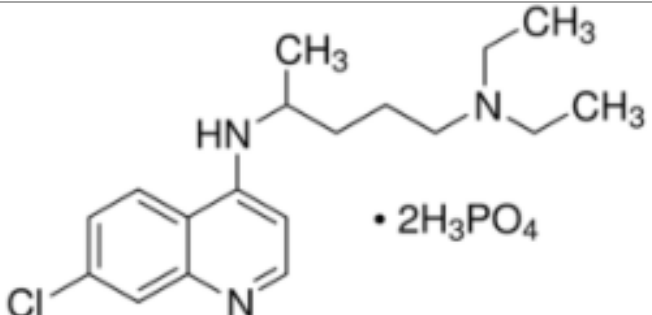
Chloroquine diphosphate

SIH-405-1G

Overview

Product Name	Chloroquine diphosphate Small Molecule
Unit Size	1g
Description	Autophagy inhibitor
Purity	≥98%

Technical Data

Alternative Name(s)	N4-(7-Chloro-4-quinolinyl)-N1,N1-dimethyl-1,4-pentanediamine diphosphate salt
Formula	C ₁₈ H ₂₆ ClN ₃ ·2H ₃ PO ₄
CAS#	50-63-5
Molecular Weight	515.86
Chemical Structure	
Solubility	Soluble to 100 mM in water.
Source	Synthetic
Appearance	Beige Solid
Storage Conditions	0°C; 1 year+
Shipping Temperature	Shipped Ambient
SMILES	C1=CC(=CC=C1C(=CC=N2)NC(CCCN(CC)CC)C)Cl.O=[P](O)(O)O.O=[P](O)(O)O
Research Area(s)	Autophagy

Biological Description

Function	<p>Chloroquine diphosphate was originally developed as a treatment against malaria. It has since been implicated in cancer research as it inhibits cell growth and induces cell death in a number of cancer cell lines. Chloroquine also inhibits autophagy by specifically blocking acidification of the lysosomes which fuse with autophagosomes. This consequently prevents the degradation of materials.</p> <ol style="list-style-type: none">Jiang P.D., et al. (2010) Biomed Pharmacother. 64(9): 609-14.Egger M.E., et al. (2013) J Surg Res. 184(1): 274-81.
Product Citations	PubMed ID: N/A

Material Safety Data Sheet

Chloroquine diphosphate SIH-405-1G

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

Classification: Not WHMIS controlled.

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 50-63-5

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.