



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Chloroquine Diphosphate

Autophagy inhibitor  
Catalog No. SIH-405



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Chloroquine diphosphate

### Description

Autophagy inhibitor

### Purity

>98%

### CAS No.

50-63-5

### Molecular Formula

C<sub>18</sub>H<sub>26</sub>ClN<sub>3</sub>·2H<sub>3</sub>O<sub>4</sub>P

### Molecular Weight

515.86

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

Soluble to 100 mM in water.

### Source

Synthetic

### Appearance

Beige Solid

### SMILES

C1=CC(=CC2=C1C(=CC=N2)NC(CCCN(CC)CC)C)Cl.O=[P](O)(O)O.O=[P](O)(O)O

### 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

## Safety Phrases

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.

## Cite This Product

Chloroquine diphosphate (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-405)

## Biological Description

### Alternative Names

N4-(7-Chloro-4-quinolinyl)-N1,N1-dimethyl-1,4-pentanediamine diphosphate salt

### Research Areas

Cancer, Autophagy

### PubChem ID

64927

### Scientific Background

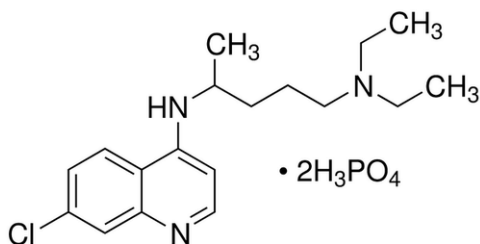
Chloroquine diphosphate was originally developed as a treatment against malaria. It has since been implicated in cancer research as it inhibits cell growth and induces cell death in a number of cancer cell lines. Chloroquine also inhibits autophagy by specifically blocking acidification of the lysosomes which fuse with autophagosomes. This consequently prevents the degradation of materials.

### References

1. Jiang P.D., et al. (2010) Biomed Pharmacother. 64(9): 609-14.
2. Egger M.E., et al. (2013) J Surg Res. 184(1): 274-81.

## Product Images

Chemical structure of Chloroquine diphosphate (SIH-405), a Autophagy inhibitor. CAS #: 50-63-5. Molecular Formula: C<sub>18</sub>H<sub>26</sub>ClN<sub>3</sub>·2H<sub>3</sub>PO<sub>4</sub>. Molecular Weight: 515.86 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.