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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Hydroxychloroquine

Autophagy inhibitor
Catalog No. SIH-400



Discovery through partnership | Excellence through quality

Overview

Product Name

Hydroxychloroquine

Description

Autophagy inhibitor

Purity

>98%

CAS No.

747-36-4

Molecular Formula

C₁₈H₂₆ClN₃O₄

Molecular Weight

433.95

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in greater than 20 mg/ml H₂O.

Source

Synthetic

Appearance

White to off-white powder.

SMILES

C1=C2C(=CC(=C1)Cl)N=CC=C2NC(CCCN(CCO)CC)C.O=[S](O)(O)=O

InChI

InChI=1S/C18H26ClN3O4/c1-3-22(11-12-23)10-4-5-14(2)21-17-8-9-20-18-13-15(19)6-7-16(17)18;1-5(2,3)4/h6-9,13-14,23H,3-5,10-1

2H2,1-2H3,(H,20,21);(H2,1,2,3,4)

InChIKey

JCBIVZZPXRZKTI-UHFFFAOYSA-N

Safety Phrases

Classification: Acute toxicity, Oral (Category 4), Eye irritation (Category 2A)

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.

Hazard statements:

H302- Harmful if swallowed.

H319- Causes serious eye irritation.

Precautionary statements:

P264- Wash skin thoroughly after handling.

P270- Do not eat, drink or smoke when using this product.

P280- Wear protective gloves/ eye protection/ face protection.

P301 + P312- IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P330- Rinse mouth.

P337 + P313- If eye irritation persists: Get medical advice/ attention.

P501- Dispose of contents/ container to an approved waste disposal plant.

Cite This Product

Hydroxychloroquine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-400)

Biological Description

Alternative Names

Hydroxychloroquine sulphate, 7-Chloro-4-[4-(N-ethyl-N-b-hydroxyethylamino)-1-methylbutylamino]quinoline

Research Areas

Cancer, Autophagy

PubChem ID

12947

Scientific Background

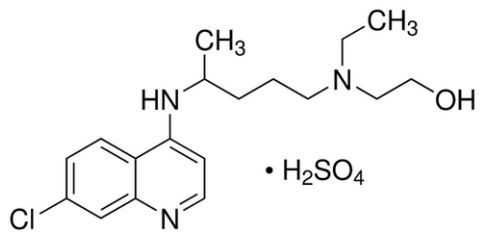
Hydroxychloroquine was first established as an anti-malarial agent, but is now being used in a variety of applications, including the inhibition of autophagy. Hydroxychloroquine is a lysosomotropic agent and therefore inhibits autophagy by obstructing the final step of autophagy, the fusion of autophagosomes with lysosomes, thereby preventing the acidification of the lysosomal compartment. In the context of cancer, autophagy is thought to be adopted by tumor cells to survive in the nutrient-deficient and hypoxic tumor environment. Hydroxychloroquine has therefore been studied extensively within the context of certain cancers.

References

1. van Loosdregt J., et al. (2013) J Allergy Clin Immunol. 131(5): 1443-6.e1.
2. Lotze M.T., et al. (2013) Cancer J. 19(4): 341-7.
3. Xie X., et al. (2013) PLoS One. 8(1): e55096.

Product Images

Chemical structure of Hydroxychloroquine (SIH-400), a Autophagy inhibitor. CAS #: 747-36-4. Molecular Formula: C₁₈H₂₆ClN₃O · H₂SO₄. Molecular Weight: 433.95 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.