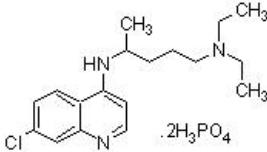


Product datasheet

Chloroquine diphosphate, apoptosis and autophagy inhibitor ab142116

[11 References](#) [2 Images](#)

Overview

Product name	Chloroquine diphosphate, apoptosis and autophagy inhibitor
Description	Antimalarial; apoptosis and autophagy inhibitor
Biological description	Antimalarial agent. Inhibits tumor cell growth and metastasis and induces apoptosis <i>in vitro</i> . Binds to Fe(II)-protoporphyrin IX (FP) to form FP-chloroquine complex resulting in cell lysis and parasite cell autodigestion.
Purity	> 98%
CAS Number	50-63-5
Chemical structure	

Properties

Chemical name	<i>N</i> ⁴ -(7-Chloroquinolin-4-yl)- <i>N</i> ¹ , <i>N</i> ¹ -diethylpentane-1,4-diamine diphosphate
Molecular weight	515.87
Molecular formula	C ₁₈ H ₂₆ ClN ₃ ·2H ₃ PO ₄
PubChem identifier	64927
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our frequently asked

[questions \(FAQ\) page](#) for more details.

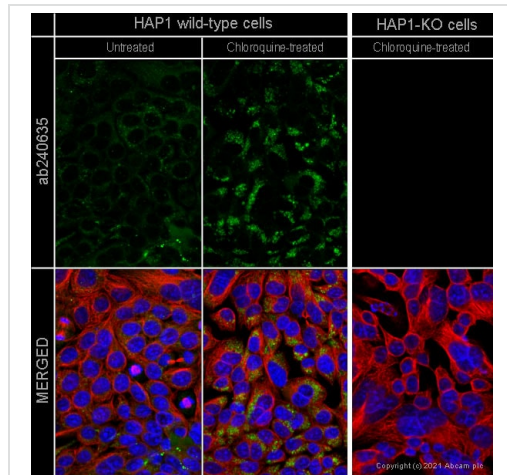
SMILES

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Source

Synthetic

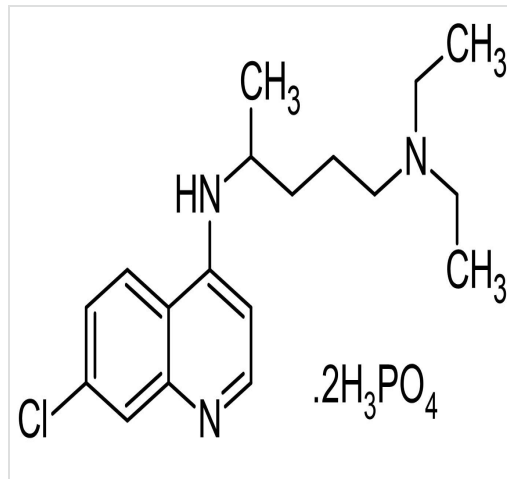
Images



Immunocytochemistry - Chloroquine diphosphate, apoptosis and autophagy inhibitor (ab142116)

ab240635 staining SQSTM1 in wild-type Hap1 cells and SQSTM1 knockout Hap1 cells treated with chloroquine (ab142116, 50µM for 24 hrs). The cells were fixed with 100% methanol (5 min) then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab240635** at 1µg/ml concentration and **ab7291** (Mouse monoclonal to alpha Tubulin) at 1/1000 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).



Chemical Structure - Chloroquine diphosphate, apoptosis and autophagy inhibitor (ab142116)

2D chemical structure image of ab142116, Chloroquine diphosphate, apoptosis and autophagy inhibitor

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