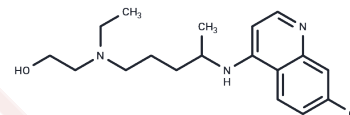


Hydroxychloroquine

Chemical Properties

CAS No. :	118-42-3
Formula:	C ₁₈ H ₂₆ ClN ₃ O
Molecular Weight:	335.87
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Hydroxychloroquine (2-[[4-[(7-Chloroquinolin-4-yl)amino]pentyl](ethyl)amino]ethanol) (HCQ) is an alkalinizing lysosomotropic drug that acts by inducing apoptosis of renal cancer cells in vitro and inhibiting TLR7/9. It is a medication used to prevent and treat malaria, and it's also being studied as an experimental treatment for COVID-19.
Targets(IC50)	Parasite, Autophagy, SARS-CoV, TLR

Solubility Information

Solubility	H ₂ O: 1.65 mg/mL (4.91 mM), Sonication and heating to 60°C are recommended. DMSO: 257 mg/mL (765.18 mM), Sonication is recommended. 1M HCl: 99 mg/mL (294.76 mM), when pH is adjusted to 2 with HCl. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9773 mL	14.8867 mL	29.7734 mL
5 mM	0.5955 mL	2.9773 mL	5.9547 mL
10 mM	0.2977 mL	1.4887 mL	2.9773 mL
50 mM	0.0595 mL	0.2977 mL	0.5955 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nicholson M W, Huang C Y, Wang J Y, et al. Cardio-and Neurotoxicity of Selected Anti-COVID-19 Drugs. Pharmaceuticals. 2022, 15(6): 765

Wang Z, Tan M, Su W, et al. Persistent Degradation of HER2 Protein by Hybrid nanoPROTAC for Programmed Cell Death. Journal of Medicinal Chemistry. 2023

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