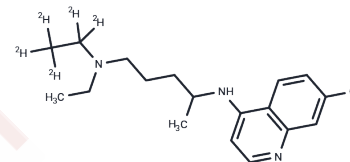


Chloroquine-D5

Chemical Properties

CAS No. :	1854126-41-2
Formula:	C ₁₈ H ₂₁ D ₅ ClN ₃
Molecular Weight:	324.9
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	Chloroquine-D5 is a deuterated compound of Chloroquine. Chloroquine (T8689) has a CAS number of 54-05-7. Chloroquine (T8689) is an autophagy and toll-like receptors (TLRs) inhibitor. Chloroquine (T8689) is an antimalarial and anti-inflammatory agent widely used to treat malaria and rheumatoid arthritis. Chloroquine (T8689) is highly effective in the control of SARS-CoV-2 (COVID-19) infection in vitro with EC ₅₀ of 1.13 μM.
Targets(IC50)	HIV Protease,Parasite,Autophagy,SARS-CoV,TLR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0779 mL	15.3894 mL	30.7787 mL
5 mM	0.6156 mL	3.0779 mL	6.1557 mL
10 mM	0.3078 mL	1.5389 mL	3.0779 mL
50 mM	0.0616 mL	0.3078 mL	0.6156 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

1. Tuomela J, et al. Chloroquine has tumor-inhibitory and tumor-promoting effects in triple-negative breast cancer. *Oncol Lett.* 2013 Dec;6(6):1665-1672.

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