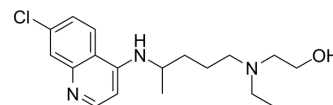


Hydroxychloroquine

Cat. No.:	HY-W031727		
CAS No.:	118-42-3		
Molecular Formula:	C ₁₈ H ₂₆ ClN ₃ O		
Molecular Weight:	335.87		
Target:	Parasite; Toll-like Receptor (TLR); SARS-CoV; Autophagy		
Pathway:	Anti-infection; Immunology/Inflammation; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

1M HCl : 100 mg/mL (297.73 mM; adjust pH to 2 with HCl)
 H₂O : 1.67 mg/mL (4.97 mM; ultrasonic and warming and heat to 60°C)
 DMSO : < 1 mg/mL (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass		
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Hydroxychloroquine is a synthetic antimalarial agent which can also inhibit Toll-like receptor 7/9 (TLR7/9) signaling. Hydroxychloroquine efficiently inhibits SARS-CoV-2 infection in vitro^{[1][2][3]}.

IC₅₀ & Target

Plasmodium

CUSTOMER VALIDATION

- Cell Discov. 2020 Mar 18;6:16.
- Nat Biomed Eng. 2021 Nov 8.
- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.

- Nat Commun. 2022 Jun 14;13(1):3419.
- Nat Commun. 2021 Aug 16;12(1):4964.

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REFERENCES

- [1]. Manzo C, et al. Psychomotor Agitation Following Treatment with Hydroxychloroquine. Drug Saf Case Rep. 2017 Dec;4(1):6.
- [2]. Lamphier M, et al. Novel small molecule inhibitors of TLR7 and TLR9: mechanism of action and efficacy in vivo. Mol Pharmacol. 2014 Mar;85(3):429-40.
- [3]. Yao X, et al. In Vitro Antiviral Activity and Projection of Optimized Dosing Design of Hydroxychloroquine for the Treatment of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). Clin Infect Dis. 2020 Mar 9. pii: ciaa237.
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Caution: Product has not been fully validated for medical applications. For research use only.

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