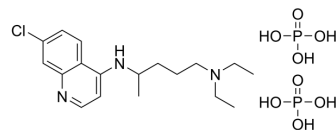


Chloroquine phosphate (Standard)

Cat. No.:	HY-17589R
CAS No.:	50-63-5
Molecular Formula:	C ₁₈ H ₃₂ ClN ₃ O ₈ P ₂
Molecular Weight:	515.86
Target:	Toll-like Receptor (TLR); Autophagy; HIV; SARS-CoV; Parasite; Antibiotic
Pathway:	Immunology/Inflammation; Autophagy; Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 33 mg/mL (63.97 mM)
 DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.9385 mL	9.6926 mL	19.3851 mL
	5 mM		0.3877 mL	1.9385 mL	3.8770 mL
	10 mM		0.1939 mL	0.9693 mL	1.9385 mL

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

BIOLOGICAL ACTIVITY

Description

Chloroquine (phosphate) (Standard) is the analytical standard of Chloroquine (phosphate). This product is intended for research and analytical applications. Chloroquine phosphate is an antimalarial and anti-inflammatory agent widely used to treat malaria and rheumatoid arthritis. Chloroquine phosphate is an autophagy and toll-like receptors (TLRs) inhibitor. Chloroquine phosphate is highly effective in the control of SARS-CoV-2 (COVID-19) infection in vitro (EC₅₀=1.13 μM)^{[1][2][3][4]}.

IC₅₀ & Target

HIV-1	Plasmodium
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CUSTOMER VALIDATION

- Mol Cancer. 2019 Apr 10;18(1):85.
- J Infection. 2020 Jun;80(6):e19-e26.

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- Circ Res. 2018 May 25;122(11):1532-1544.
 - Adv Sci (Weinh). 2024 Jan 6:e2305260.
 - Chem Eng J. 15 May 2022, 135256.

See more customer validations on www.MedChemExpress.com

Caution: Product has not been fully validated for medical applications. For research use only.

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