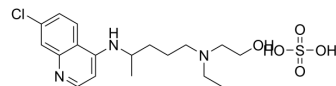


Hydroxychloroquine sulfate (Standard)

Cat. No.:	HY-B1370R
CAS No.:	747-36-4
Molecular Formula:	C ₁₈ H ₂₈ ClN ₃ O ₅ S
Molecular Weight:	433.95
Target:	Parasite; Toll-like Receptor (TLR); Autophagy; SARS-CoV
Pathway:	Anti-infection; Immunology/Inflammation; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

H₂O : 110 mg/mL (253.49 mM; Need ultrasonic and warming)
 DMF : 1.4 mg/mL (3.23 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.3044 mL	11.5221 mL	23.0441 mL
	5 mM	0.4609 mL	2.3044 mL	4.6088 mL	
	10 mM	0.2304 mL	1.1522 mL	2.3044 mL	

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

BIOLOGICAL ACTIVITY

Description

Hydroxychloroquine (sulfate) (Standard) is the analytical standard of Hydroxychloroquine (sulfate). This product is intended for research and analytical applications. Hydroxychloroquine sulfate (HCQ sulfate) is a synthetic antimalarial agent which can also inhibit Toll-like receptor 7/9 (TLR7/9) signaling. Hydroxychloroquine sulfate efficiently inhibits SARS-CoV-2 infection in vitro^{[1][2][3]}.

IC₅₀ & Target

Plasmodium

TLR7

TLR9

CUSTOMER VALIDATION

- Cell Discov. 2020 Mar 18;6:16.
- Nat Biomed Eng. 2021 Nov 8.

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- Nat Commun. 2021 Aug 16;12(1):4964.
 - Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.
 - Acta Pharm Sin B. 2021 Dec;11(12):3966-3982.

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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