(S)-Hydroxychloroquine

Cat. No.: HY-B1370A

CAS No.: 137433-24-0

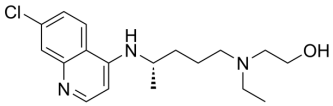
Molecular Formula: $C_{18}H_{26}ClN_3O$

Molecular Weight: 335.87

Target: Parasite; Toll-like Receptor (TLR); SARS-CoV; Autophagy

Pathway: Anti-infection; Immunology/Inflammation; Autophagy

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(S)-Hydroxychloroquine ((S)-HCQ) is the enantiomer of Hydroxychloroquine[1]. Hydroxychloroquine, a synthetic antimalarial agent, inhibits Toll-like receptor 7/9 (TLR7/9) signaling, and shows efficiently inhibits SARS-CoV-2 infection in vitro[2][3][4].		
IC_{50} & Target	Plasmodium	TLR7	TLR9

CUSTOMER VALIDATION

- J Cell Mol Med. 2022 May;26(10):2981-2994.

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REFERENCES

[1]. Cardoso CD, et al. Enantioselective analysis of the metabolites of hydroxychloroquine and application to an in vitro metabolic study. J Pharm Biomed Anal. 2005 Apr 1;37(4):703-8.

[2]. Manzo C, et al. Psychomotor Agitation Following Treatment with Hydroxychloroquine. Drug Saf Case Rep. 2017 Dec;4(1):6.

[3]. 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.

[4]. 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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