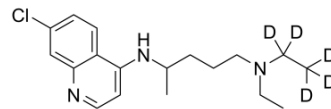


Chloroquine D5

Cat. No.:	HY-17589AS
CAS No.:	1854126-41-2
Molecular Formula:	C ₁₈ H ₂₁ D ₅ ClN ₃
Molecular Weight:	324.9
Target:	Parasite; Autophagy; SARS-CoV; Toll-like Receptor (TLR); HIV
Pathway:	Anti-infection; Autophagy; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description Chloroquine D5 is deuterium labeled Chloroquine. Chloroquine is an **antimalarial** and anti-inflammatory agent widely used to treat malaria and rheumatoid arthritis. Chloroquine is an **autophagy** and **toll-like receptors (TLRs)** inhibitor. Chloroquine is highly effective in the control of **SARS-CoV-2 (COVID-19)** infection in vitro (EC₅₀=1.13 μM)^{[1][2][3][4]}.

IC ₅₀ & Target	Malaria	TLRs	SARS-COV-2	HIV-1
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REFERENCES

- [1]. Said A, et al. Chloroquine promotes IL-17 production by CD4+ T cells via p38-dependent IL-23 release by monocyte-derived Langerhans-like cells. *J Immunol.* 2014 Dec 15;193(12):6135-43.
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- [4]. Colson P, et al. Chloroquine and hydroxychloroquine as available weapons to fight COVID-19. *Int J Antimicrob Agents.* 2020;55(4):105932.
- [5]. Savarino A, et al. The anti-HIV-1 activity of chloroquine. *J Clin Virol.* 2001;20(3):131-135.

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

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