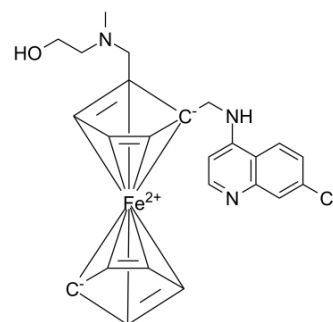


SARS-CoV-IN-2

Cat. No.:	HY-135856		
CAS No.:	888958-26-7		
Molecular Formula:	C ₂₄ H ₁₈ ClFeN ₃ O		
Molecular Weight:	455.72		
Target:	SARS-CoV; Parasite; HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 19.23 mg/mL (42.20 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.1943 mL	10.9716 mL	21.9433 mL
		5 mM		0.4389 mL	2.1943 mL	4.3887 mL
10 mM			0.2194 mL	1.0972 mL	2.1943 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.92 mg/mL (4.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SARS-CoV-IN-2 is an effective inhibitor of SARS-CoV replication. SARS-CoV-IN-2 shows anti-Coronavirus activity with an EC ₅₀ of 1.9 μM in Vero cells. SARS-CoV-IN-2 inhibits the 3D7 and W2 strains of <i>P. falciparum</i> with IC ₅₀ s of 21.5 and 30 nM; and IC ₉₀ s of 51.0 and 99.9 nM; respectively. SARS-CoV-IN-2 reduces HIV-1-induced cytopathic effect with an EC ₅₀ of 2.9 μM in MT-4 cells. Antimalarial and Antiviral Activities ^[1] .
IC₅₀ & Target	EC ₅₀ : 1.9 μM (SARS-CoV, in Vero cells) ^[1] IC ₅₀ : 21.5 nM (3D7 <i>P. falciparum</i>), 30 nM (W2 <i>P. falciparum</i>) ^[1] IC ₉₀ : 51.0 nM (3D7 <i>P. falciparum</i>), 99.9 nM (W2 <i>P. falciparum</i>) ^[1]
In Vitro	SARS-CoV-IN-2 (Compound 3) inhibits in vitro growth of <i>Plasmodium falciparum</i> far better than Chloroquine (CQ) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Biot C, et al. Design and synthesis of hydroxyferroquine derivatives with antimalarial and antiviral activities. J Med Chem. 2006 May 4;49(9):2845-9.

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

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