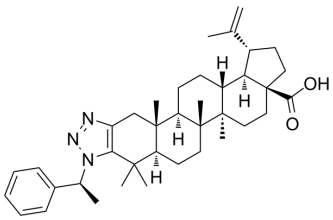
HCoV-229E-IN-1

Cat. No.:	HY-132169
CAS No.:	2639757-13-2
Molecular Formula:	$C_{38}H_{53}N_3O_2$
Molecular Weight:	583.85
Target:	SARS-CoV
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 : 12.5 mg/mL (21.41 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7128 mL	8.5638 mL	17.1277 mL
5 mM	0.3426 mL	1.7128 mL	3.4255 mL
10 mM	0.1713 mL	0.8564 mL	1.7128 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 1.67 mg/mL (2.86 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (2.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (2.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HCoV-229E-IN-1 is a potent inhibitor of HCoV-229E replication, with an EC_{50} of 0.65 μM and 0.6 μM in MTS and CPE cells, respectively[1].

IC_{50} & Target

IC50: 0.65 μM (HCoV-229E)[1]

In Vitro

HCoV-229E-IN-1 (compound 5h) (0.01-100 μM) fully suppresses the capacity of HCoV-229E replication in a dose-dependent manner[1].

HCoV-229E-IN-1 (12 μM) fully prevented the formation of dsRNA intermediates of CoV RNA synthesis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Stevaert A, et, al. Betulonic Acid Derivatives Interfering with Human Coronavirus 229E Replication via the nsp15 Endoribonuclease. J Med Chem. 2021 May 13;64(9):5632-5644.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA