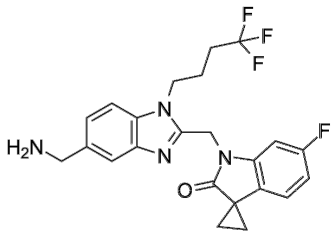
Sisunatovir

Cat. No.:	HY-123475
CAS No.:	1903763-82-5
Molecular Formula:	$C_{23}H_{22}F_4N_4O$
Molecular Weight:	446.44
Target:	RSV
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 : 25 mg/mL (56.00 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2399 mL	11.1997 mL	22.3994 mL
5 mM	0.4480 mL	2.2399 mL	4.4799 mL
10 mM	0.2240 mL	1.1200 mL	2.2399 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: ≥ 2.5 mg/mL (5.60 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sisunatovir (RV521) is a potent and orally active respiratory syncytial virus (RSV) inhibitor with IC_{50} values of 1.4, 1.0 nM for RSV A, RSV B, respectively. Sisunatovir inhibits RSV infection and reduces virus titers in the lungs of mice[1].

In Vitro

Sisunatovir (10 nM; 2 h prior to infection) inhibits RSV infection in HAE cells[1].

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

In Vivo

Sisunatovir (0, 1, 10, 50 mg/kg; p.o.) reduces virus titers in the lungs of mice with RSV A2 infection[1].

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

CUSTOMER VALIDATION

ty, and Pharmacokinetics of