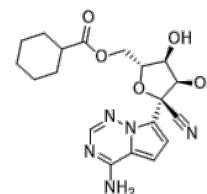


Product Name : SHEN26
Cat. No. : PC-23359
CAS No. : 2691076-98-7
Molecular Formula : C₁₉H₂₃N₅O₅
Molecular Weight : 401.42
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



CAS: 2691076-98-7

Biological Activity

Losidesvir (SHEN26, ATV014) is a potent, orally active anti-**SARS-CoV-2** nucleoside compound with EC₅₀ of 0.48 μM against SARS-CoV-2 replicon, inhibits **SARS-CoV-2 RdRp**.

ATV014 (SHEN26) is 3.4-fold more potent than that of GS-441524 (EC₅₀ = 1.644 μM).

ATV014 (SHEN26) shows significantly improved antiviral activities of ATV014 against B.1 (IC₅₀ = 0.46 μM), Beta (IC₅₀ = 0.13 μM), Delta (IC₅₀ = 0.24 μM) and Omicron (IC₅₀ = 0.013 μM) compared to remdesivir and GS-441524.

ATV014 (SHEN26) shows EC₅₀ of 0.0562 μM against the B.1 strain in A549-ACE2 cells

ATV014 (SHEN26) (20, 50, 100, and 200 mg/kg) dose-dependently reduced viral RNA in the lungs.

ATV014 (SHEN26) at 200 mg/kg significantly reduced viral RNA by approximately two orders of magnitude in the Delta variant infected K18-hACE2 transgenic mice.

References

Zhou Q, et al. *Signal Transduct Target Ther.* 2023 Jan 12;8(1):27.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com