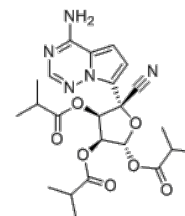


Product Name : GS-621763
Cat. No. : PC-38459
CAS No. :
Molecular Formula : C₂₃H₂₉N₅O₇
Molecular Weight : 487.513
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



Biological Activity

GS-621763 is an oral prodrug of remdesivir parent nucleoside GS-441524, inhibits SARS-CoV-2, including variants of concern in cell culture (EC₅₀=0.11 to 0.73 μM) and human airway epithelium organoids.

Oral GS-621763 is efficiently converted to plasma metabolite GS-441524, and in lungs to the triphosphate metabolite identical to that generated by remdesivir, demonstrating a consistent mechanism of activity.

Twice-daily oral administration of 10 mg/kg GS-621763 reduces SARS-CoV-2 burden to near-undetectable levels in ferrets.

GS-621763 blocks virus replication and prevents transmission to untreated contact animals SARS-CoV-2 strain P.1 gamma γ.

GS-621763 administration reduced viral load and lung pathology, improved pulmonary function in COVID-19 mouse model.

References

Cox RM, et al. Nat Commun. 2021 Nov 5;12(1):6415.

Schäfer A, et al. Sci Transl Med. 2022 Mar 22:eabm3410.

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

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