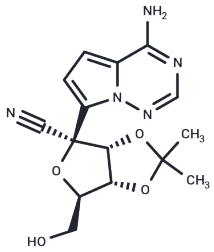
Data Sheet (Cat.No.T38577)

TargetMol

Remdesivir O-desphosphate acetonide impurity

Chemical Properties



CAS No. : 1191237-80-5

Formula: C15H17N5O4

Molecular Weight: 331.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Remdesivir O-desphosphate acetonide impurity is a contaminant found in Remdesivir (GS-5734), a nucleoside analogue recognized for its potent antiviral properties, particularly inhibiting SARS-CoV-2 (COVID-19) infection in vitro.
Targets(IC50)	Others,DNA/RNA Synthesis,SARS-CoV
In vitro	Remdesivir O-desphosphate acetonide impurity (analogue 21) is a 2′,3′-acetonide protected derivative of Remdesivir[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0181 mL	15.0907 mL	30.1814 mL
5 mM	0.6036 mL	3.0181 mL	6.0363 mL
10 mM	0.3018 mL	1.5091 mL	3.0181 mL
50 mM	0.0604 mL	0.3018 mL	0.6036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dustin Siegel, et al. Discovery and Synthesis of a Phosphoramidate Prodrug of a Pyrrolo[2,1-f][triazin-4-amino] Adenine C-Nucleoside (GS-5734) for the Treatment of Ebola and Emerging Viruses. J Med Chem. 2017 Mar 9;60(5): 1648-1661.

Manli Wang, et al. Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro. Cell Res. 2020 Mar;30(3):269-271.

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