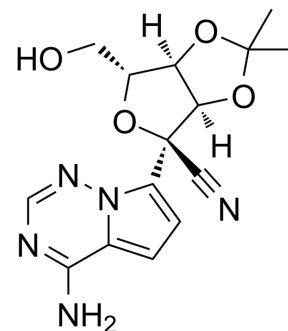


Remdesivir O-desphosphate acetonide impurity

Cat. No.:	HY-136597		
CAS No.:	1191237-80-5		
Molecular Formula:	C ₁₅ H ₁₇ N ₅ O ₄		
Molecular Weight:	331.33		
Target:	DNA/RNA Synthesis; SARS-CoV		
Pathway:	Cell Cycle/DNA Damage; 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 : 100 mg/mL (301.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.55 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.55 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.55 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Remdesivir O-desphosphate acetonide impurity is an impurity of Remdesivir. Remdesivir (GS-5734), a nucleoside analogue with effective antiviral activity and is highly effective in the control of SARS-CoV-2 (COVID-19) infection in vitro ^{[1][2]} .
In Vitro	Remdesivir O-desphosphate acetonide impurity (analogue 21) is a 2',3'-acetonide protected analogue of Remdesivir ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.
- Patent. US2022022776A1.

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REFERENCES

- [1]. 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.
- [2]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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