Data Sheet (Cat.No.T7766)



Remdesivir

Chemical Properties

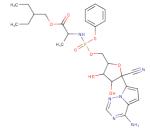
CAS No.: 1809249-37-3

Formula: C27H35N6O8P

Molecular Weight: 602.58

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Remdesivir (GS-5734) is a nucleoside analog, a broad-spectrum antiviral compound that		
Beschiption	exerts its activity by inhibiting the RNA-dependent RNA polymerase of viruses. Remdesivir is active against Ebola, SARS, and MERS viruses, and is potentially therapeutic against COVID-19.		
Targets(IC50)	SARS-CoV,DNA/RNA Synthesis		
In vitro	METHODS : Mouse hepatitis virus (MHV)-infected DBT cells were incubated with Remdesivir (0.01-1 μM) for 24 h, and the supernatant was analyzed for viral titer by plaque assay. RESULTS : Remdesivir effectively inhibited MHV with an EC50 of 0.03 μM. [1] METHODS : 2019-nCoV-infected Vero E6 cells were treated with Remdesivir (0-400 μM) for 48 h. Viral yield in cell supernatants was detected using qRT-PCR.		
	RESULTS : Remdesivir effectively blocked viral infection at low micromolar concentrations and showed high SI (EC50 = 0.77 μM; CC50 > 100 μM; SI > 129.87). [2]		
In vivo	METHODS : To assay antiviral activity in vivo, Remdesivir (25 mg/kg, 12% sulfobutylether-β-cyclodextrin sodium salt in water (with HCl/NaOH) at pH 5.0) was injected subcutaneously into MERS-CoV-infected Ces1c-/- hDPP4 mice twice daily. RESULTS : Prophylactic Remdesivir reduced MERS-CoV replication and disease. [3]		
	METHODS : To assay antiviral activity in vivo, Remdesivir (25 mg/kg once daily, administered three times) and Loratadine (10 mg/kg once daily, administered four times) were administered intraperitoneally to 501Y.V2 SARS-CoV-2 infected BALB/c mice.		
	RESULTS : The combination of Remdesivir and the antihistamine Loratadine reduced SARS-CoV-2 replication and inflammation and protected against lung injury. [4]		

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Solubility	DMSO: 125 mg/mL (207.44 mM), (< 1 mg/ml refers to the product slightly soluble
	or insoluble)

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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6595 mL	8.2977 mL	16.5953 mL
5 mM	0.3319 mL	1.6595 mL	3.3191 mL
10 mM	0.166 mL	0.8298 mL	1.6595 mL
50 mM	0.0332 mL	0.166 mL	0.3319 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.

Reference

Agostini ML, et al. Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. mBio. 2018 Mar 6;9(2):e00221-18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street, Wellesley Hills, MA 02481

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