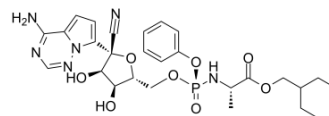


Remdesivir

Cat. No.:	HY-104077
CAS No.:	1809249-37-3
Molecular Formula:	C ₂₇ H ₃₅ N ₆ O ₈ P
Molecular Weight:	602.58
Target:	DNA/RNA Synthesis; SARS-CoV
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (165.95 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6595 mL	8.2977 mL	16.5953 mL
	5 mM	0.3319 mL	1.6595 mL	3.3191 mL
	10 mM	0.1660 mL	0.8298 mL	1.6595 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.17 mg/mL (3.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 5 mg/mL (8.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.17 mg/mL (3.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Remdesivir (GS-5734), a nucleoside analogue with effective antiviral activity, has EC₅₀s of 74 nM for SARS-CoV and MERS-CoV in HAE cells, and 30 nM for murine hepatitis virus in delayed brain tumor cells. Remdesivir is highly effective in the control of SARS-CoV-2 (COVID-19) infection in vitro^{[1][2]}.

IC₅₀ & Target

EC₅₀: 30 nM (murine hepatitis virus, delayed brain tumor cell), 74 nM (SARS-CoV, HAE cell), 74 nM (MERS-CoV, HAE cell)^[1]

In Vitro

Remdesivir (GS-5734) is a potent antiviral agent. Remdesivir inhibits murine hepatitis virus (MHV) with an EC₅₀ of 30 nM, and

blocks SARS-CoV and MERS-CoV in HAE cells with EC₅₀s of both 74 nM in HAE cells after treatment for 24 h^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2020 Jun;582(7813):561-565.
- Science. 2020 Jun 26;368(6498):1499-1504.
- Cell Res. 2020 Mar;30(3):269-271.
- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.
- Sci Bull. 2020 Dec 9.

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REFERENCES

[1]. 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). pii: e00221-18.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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