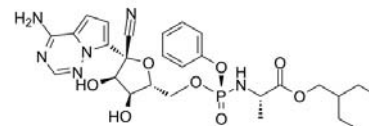


Data Sheet

Product Name:	Remdesivir
Cat. No.:	CS-0028115
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:	Anti-infection; Cell Cycle/DNA Damage
Solubility:	DMSO : ≥ 125 mg/mL (207.44 mM)



BIOLOGICAL ACTIVITY:

Remdesivir (GS-5734) is a nucleoside analogue, with effective antiviral activity, with 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 2019-nCoV (COVID-19) infection in vitro. 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].

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.

CAIndexNames:

L-Alanine, N-[(S)-hydroxyphenoxyphosphinyl]-, 2-ethylbutyl ester, 6-ester with 2-C-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-2,5-anhydro-D-altrnonitrile

SMILES:

C[C@H](N[P@@](OC1=CC=CC=C1)(OC[C@H]2O[C@@](C#N)(C3=CC=C4C(N)=NC=NN43)[C@H](O)[C@@H]2O)=O)C(OCC(CC)CC)=O

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

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