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## DATASHEET

Remdesivir

### Product overview

<b>Name</b>	Remdesivir
<b>Cat No</b>	HB9521
<b>Alternative names</b>	GS-5734
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Adenosine triphosphate analog with broad-spectrum antiviral activity

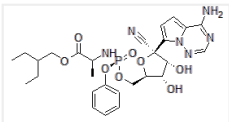
### Biological Data

<b>Biological description</b>	Adenosine triphosphate analog with broad-spectrum antiviral activity which metabolizes into its active form GS-441524.
	Inhibits MERS-CoV or SARS-CoV-infected HAE cultures ( $EC_{50}$ =74nM and 69nM) and murine hepatitis virus (MHV) ( $EC_{50}$ =30nM).

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM), and in ethanol (20 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	2-Ethylbutyl (2S)-2-[[[(S)-[[[(2R,3S,4R,5R)-5-(4-aminopyrrolo(2,1-f)(1,2,4)triazin-7-yl)-5-cyano-3,4-dihydroxytetrahydrofuran-2-yl]methoxy]phenoxy]phosphoryl]amino]propanoate
<b>Molecular Weight</b>	602.58
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{27}H_{35}N_6O_8P$
<b>CAS Number</b>	1809249-37-3
<b>PubChem identifier</b>	121304016
<b>SMILES</b>	<chem>CCC(CC)COC(=O)[C@H](C)N[P@](=O)(OC[C@@H]1[C@H]([C@H]([C@](O1)(C#N)C2=CC=C3N2N=CN=C3N)O)OC4=CC=CC=C4</chem>
<b>InChi</b>	InChI=1S/C27H35N6O8P/c1-4-18(5-2)13-38-26(36)17(3)32-42(37,41-19-9-7-6-8-10-19)39-14-21-23(34)24(35)27(15-28,40-21)22-12-11-20-25(29)30-16-31-33(20)22/h6-12,16-18,21,23-24,34-35H,4-5,13-14H2,1-3H3,(H,32,37)(H2,29,30,31)/t17-,21+,23+,24+,27-,42-/m0/s1
<b>InChiKey</b>	RWWYLEGWBNMMLJ-YSOARWBDSA-N
<b>MDL number</b>	MFC31657351
<b>Appearance</b>	White solid

### References

### Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys

Warren TK *et al* (2016) Nature 531(7594)

**PubMedID** [26934220](#)

### The antiviral compound remdesivir potently inhibits RNA-dependent RNA polymerase from Middle East respiratory syndrome coronavirus

Gordon CJ *et al* (2020) J Biol Chem 295(15)

**PubMedID** [32094225](#)

### Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro

Wang M *et al* (2020) Cell Res 30(3)

**PubMedID** [32020029](#)

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