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DATASHEET

Remdesivir

Product overview

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

Biological Data

Biological description

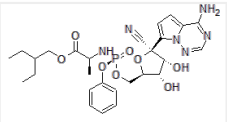
Adenosine triphosphate analog with broad-spectrum antiviral activity which metabolizes into its active form GS-441524.

Inhibits MERS-CoV or SARS-CoV-infected HAE cultures (EC_{50}=74nM and 69nM) and murine hepatitis virus (MHV) (EC_{50}=30nM).

Solubility & Handling

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

Chemical Data

Chemical name	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]phenoxyphosphoryl]amino]propanoate
Molecular Weight	602.58
Chemical structure	
Molecular Formula	$C_{27}H_{35}N_6O_8P$
CAS Number	1809249-37-3
PubChem identifier	121304016
SMILES	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)O)OC4=CC=CC=C4
InChi	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
InChiKey	RWWYLEGWBNMMLJ-YSOARWBDSA-N
MDL number	MFCD31657351
Appearance	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