

Product Name: Remdesivir

Catalog No.: 7226

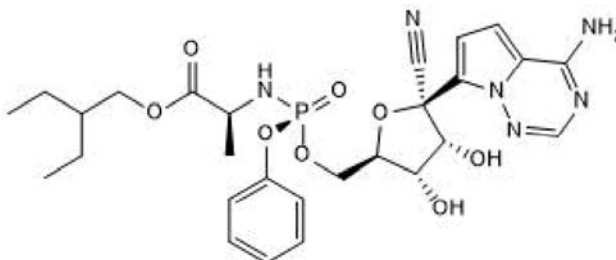
Batch No.: 1

CAS Number: 1809249-37-3

IUPAC 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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₇ H ₃₅ N ₆ O ₈ P
Batch Molecular Weight:	602.58
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = -24.1 (Concentration = 1.0, Solvent = Methanol)
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	53.82	5.85	13.95
Found	53.93	5.73	13.95

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: Remdesivir

Catalog No.: 7226

Batch No.: 1

CAS Number: 1809249-37-3

IUPAC 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

Description:

Viral RNA-dependent RNA polymerase inhibitor (RdRp) and broad spectrum antiviral nucleotide prodrug. Metabolized to active form, GS 441524 (Cat. No. 7227). Exhibits activity against a range of RNA viruses *in vitro* (EC₅₀ values are 0.019, 0.07, 0.07 - 0.34, 0.086 - 0.14, and 23.15 μM against RSV, SARS-CoV, MERS-CoV, EBOV and SARS-CoV-2, respectively). Exhibits antiviral efficacy in animal models of MERS-CoV and EBOV infection.

Physical and Chemical Properties:

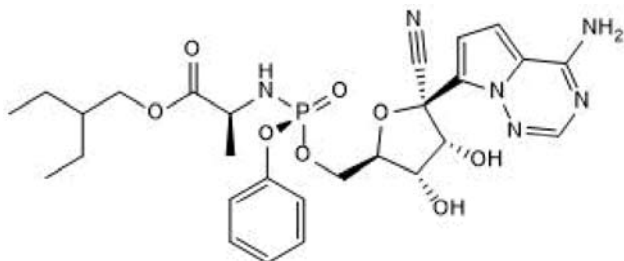
Batch Molecular Formula: C₂₇H₃₅N₆O₈P

Batch Molecular Weight: 602.58

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Choy et al (2020) Remdesivir, lopinavir, emetine, and homoharringtonine inhibit SARS-CoV-2 replication *in vitro*. *Antiviral Res.* **178** 104786. PMID: 32251767.

Sheahan et al (2020) Comparative therapeutic efficacy of remdesivir and combination lopinavir, ritonavir, and interferon beta against MERS-CoV. *Nat. Commun.* **11** 222. PMID: 31924756.

Warren et al (2016) Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys. *Nature* **531** 381. PMID: 26934220.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956