

Product Name: GS 441524

Catalog No.: 7227

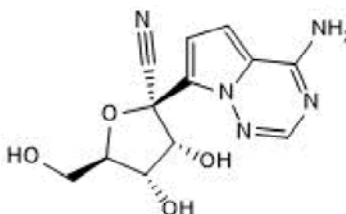
Batch No.: 1

CAS Number: 1191237-69-0

IUPAC Name: (2*R*,3*R*,4*S*,5*R*)-2-(4-Aminopyrrolo[2,1-*f*][1,2,4]triazin-7-yl)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-carbonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₃N₅O₄
Batch Molecular Weight: 291.27
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.48	4.5	24.04
Found	49.18	4.5	24.43

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

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Description:

Viral RNA-dependent RNA polymerase (RdRp) inhibitor and broad spectrum antiviral nucleotide; active metabolite of Remdesivir (Cat. No. 7226). Competes with natural nucleoside triphosphates, blocking viral RNA synthesis. Exhibits antiviral activity against viruses from Coronaviridae family including SARS-CoV-2 in vitro, and SARS-CoV and feline infectious peritonitis virus (FIPV) in vitro and in vivo. Inhibits SARS-CoV and MERS-CoV- infected HAE cultures (EC₅₀ values are 0.18 and 0.86 μM, respectively) and inhibits murine hepatitis virus (MHV) (EC₅₀ = 1.1 μM).

Physical and Chemical Properties:

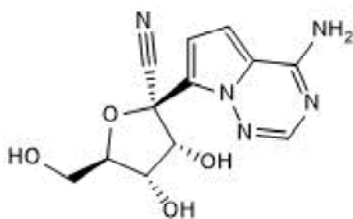
Batch Molecular Formula: C₁₂H₁₃N₅O₄

Batch Molecular Weight: 291.27

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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:

Agostini et al (2018) Coronavirus susceptibility to the antiviral Remdesivir (GS-5734) is mediated by the viral polymerase and the proofreading exoribonuclease mBio. **9** e00221. PMID: 29511076.

Cho et al (2012) Synthesis and antiviral activity of a series of 1'-substituted 4-aza-7,9-dideazaadenosine C-nucleosides Bioorg.Med.Chem.Lett. **22** 2705. PMID: 22446091.

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