

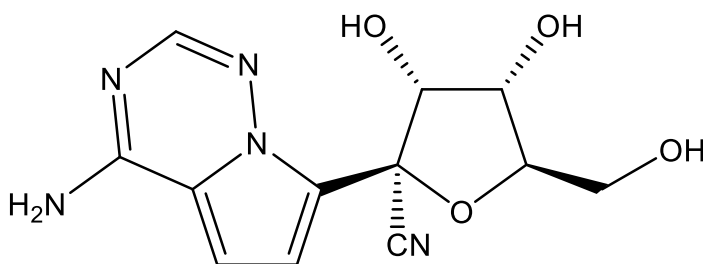
**Catalog # 10-4485**

**GS-441524**

CAS#1191237-69-0

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

Lot # FBS2107



GS-441524 is the parent nucleoside and active metabolite of the SARS-CoV2 drug remdesivir. Displayed broad spectrum antiviral activity against HCV, YFV, DENV-2, influenza A, parainfluenza 3, and SARS-CoV.<sup>1</sup> It has been suggested that GS-441524 is superior as an anti-SARS-CoV2 drug due to simplicity of preparation compared to remdesivir, lack of on-target liver toxicity, and the fact that remdesivir is prematurely hydrolyzed to GS-441524 in human serum.<sup>2</sup> Additionally, the enzymes that hydrolyze remdesivir to active metabolite GS-441524 are hardly expressed in lungs.

- 1) 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
- 2) Yan and Muller (2020) *Advantages of the Parent Nucleoside GS-441524 over Remdesivir for Covid-19 Treatment*; *ACS Med. Chem. Lett.* **11** 1361

**PHYSICAL DATA**

Molecular Weight:	291.27
Molecular Formula:	C <sub>12</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub>
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**