

FT-B60DF1



Remdesivir

*A nucleotide analog inhibitor of RdRp. Against SARS-CoV, MERS-CoV and Ebola virus.
Effectively inhibits SARS-CoV-2 in vitro*

Product Description

Catalog #: B60DF1, 25mg B60DF2, 50mg
B60DF4, 100mg B60DF5, 1g
B60DFA, 1ml 10mM in DMSO.

Name: **Remdesivir**

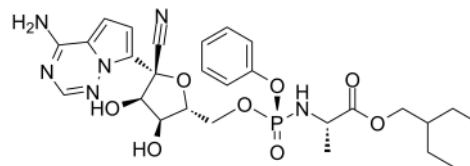
Syn.: GS 5734 [WHO-DD] ; (2S)-2-((2R,3S,4R,5R)-[5-(4-Aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxy-tetrahydro-furan-2-ylmethoxy]phenoxy-(S)-phosphorylamino)propionic acid 2-ethyl-butyl ester
CAS : 1809249-37-3

MW : 602.58

Formula : C₂₇H₃₅N₆O₈P

Properties : Purity: 98%

Storage: Powder: -20°C (long term; 3 years) ^(M)
In solvent: -80°C (6 months) -20°C (1 month)



For Research Use Only

Introduction

Remdesivir (GS-5734), a nucleoside analogue with effective antiviral activity, has EC 50 s of 74 nM for SARS-CoV and MERS-CoV in HAE cells, and 30 nM for murine hepatitis virus in delayed brain tumor cells. Remdesivir is highly effective in the control of SARS-CoV-2 (COVID-19) infection in vitro ^{[1][2]}.

In Vitro

*Solubility : DMSO : ≥ 100 mg/mL (165.95 mM)

*Preparation : 1mM = 1mg in 1.6595 mL

*Activity :

EC50: 30 nM (murine hepatitis virus, delayed brain tumor cell), 74 nM (SARS-CoV, HAE cell), 74 nM (MERS-CoV, HAE cell)^[1]

In Vivo

*Preparation :

1. Add each solvent one by one: 10% DMSO 40% PEG300 5% Tween-80 45% saline
Solubility: ≥ 2.17 mg/mL (3.60 mM); Clear solution

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2. Add each solvent one by one: 10% DMSO 90% (20% SBE- β -CD in saline)
Solubility: \geq 2.17 mg/mL (3.60 mM); Clear solution
3. Add each solvent one by one: 10% DMSO 90% corn oil
Solubility: \geq 2.17 mg/mL (3.60 mM); Clear solution

References

- [1]. Agostini ML, et al. Coronavirus Susceptibility to the Antiviral Remdesivir (GS-5734) Is Mediated by the Viral Polymerase and the Proofreading Exoribonuclease. MBio. 2018 Mar 6;9(2). pii: e00221-18.
- [2]. Wang M, et al. Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro. Cell Res. 2020 Mar;30(3):269-271.

Related products

Other BioActive Compounds [[PW505](#)]

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

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