



LKT Laboratories, Inc.

Remdesivir

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Product Information

Product ID R176485

CAS No. 1809249-37-3

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)(phenoxy)phosphoryl)amino)propanoate

Synonym GS 5734, GS-5734

Formula C₂₇H₃₅N₆O₈P

Formula Wt. 602.6

Melting Point

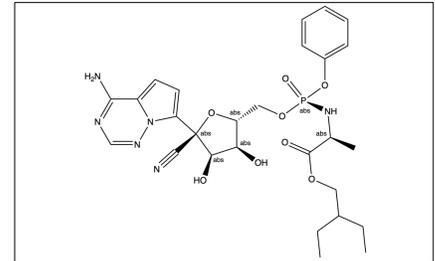
Purity ≥99%

Solubility Soluble in DMSO. Insoluble in water.

Store Temp 4° C

Ship Temp Ambient

Description Remdesivir is an antiviral compound used to inhibit the action of RNA polymerase. Remdesivir was originally investigated as a treatment for Ebola virus, but has potential to treat a variety of RNA viruses. Its activity against the coronavirus (CoV) family of viruses, such as SARS-CoV and MERS-CoV, was described in 2017, and it is also being investigated as a potential treatment for SARS-CoV-2 infections. (Pubchem)



Pricing and Availability

Bulk quantities available upon request

Product ID	Size
R176485	5 mg
R176485	25 mg
R176485	100 mg

References Warren TK, Jordan R, Lo MK, et.al. Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys. *Nature*. 2016 Mar 17;531(7594):381-5. doi: 10.1038/nature17180. Epub 2016 Mar 2. [PMID:26934220]

Sheahan TP, Sims AC, Graham RL, et.al. Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. *Sci Transl Med*. 2017 Jun 28;9(396). pii: 9/396/eaal3653. doi: 10.1126/scitranslmed.aal3653. [PMID:28659436]

Agostini ML, Andres EL, Sims AC, 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: mBio.00221-18. doi: 10.1128/mBio.00221-18. [PMID:29511076]

de Wit E, Feldmann F, Cronin J, et.al. Prophylactic and therapeutic remdesivir (GS-5734) treatment in the rhesus macaque model of MERS-CoV infection. *Proc Natl Acad Sci U S A*. 2020 Feb 13. pii: 1922083117. doi: 10.1073/pnas.1922083117. [PMID:32054787]

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.