

Remdesivir

Catalogue Number : 1803739

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: GS-5734

Chemical Name: 2-ethylbutyl (2S)-2-[[[(2R,3S,4R,5R)-5-(4-aminopyrrolo[2,1-f][1,2,4]triazin-7-yl)-5-cyano-3,4-dihydroxoxolan-2-yl]methoxy-phenoxyphosphoryl]amino]propanoate

Molecular Formula: C₂₇H₃₅N₆O₈

Molecular Weight: 602.6

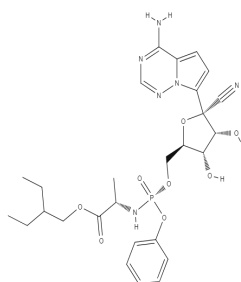
CAS Number: 1809249-37-3

Purity: 98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Remdesivir is a prodrug that metabolizes into its active form GS-441524, which interferes with the action of viral RNA polymerase and degrades viral RNA production. It is reported to exhibit antiviral activity against single stranded RNA viruses such as Ebola, Marburg, Hendra, and coronaviruses. It is currently being researched as a potential treatment for COVID-19.

Preparation & Storage

Soluble in organic solvents such as DMSO.

References

1. Wang, M., Cao, R., Zhang, L., Yang, X., Liu, J., Xu, M., ... Xiao, G. (2020). Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro. *Cell research*, 30(3), 269-271.
2. Gordon, C. J., Tchesnokov, E. P., Feng, J. Y., Porter, D. P., Gotte, M. (2020). The antiviral compound remdesivir potently inhibits RNA-dependent RNA polymerase from Middle East respiratory syndrome coronavirus. *Journal of Biological Chemistry*, jbc-AC120.
3. de Wit, E., Feldmann, F., Cronin, J., Jordan, R., Okumura, A., Thomas, T., ... Feldmann, H. (2020). Prophylactic and therapeutic remdesivir (GS-5734) treatment in the rhesus macaque model of MERS-CoV infection. *Proceedings of the National Academy of Sciences*.