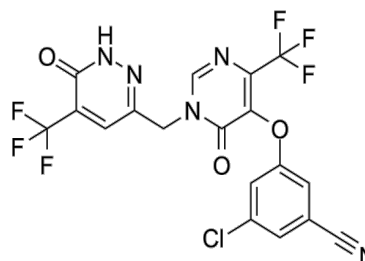


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name	:Ulonivirine (MK-8507)
Cat.No.	:URK-V2456
CAS No.	:1591823-76-5
Molecular Formula	: $C_{18}H_8ClF_6N_5O_3$
Molecular Weight	:491.73
Target	:
Solubility	:



Biological Activity

Ulonivirine, also known as MK-8507, is a next-generation non-nucleoside reverse transcriptase inhibitor (NNRTI) that targets the human immunodeficiency virus (HIV).

The target mechanism of ulonivirine is to block the activity of the reverse transcriptase enzyme of HIV-1, which is essential for the virus to replicate and infect healthy cells. Ulonivirine binds to a pocket near the active site of reverse transcriptase, causing a conformational change that inhibits the enzyme's function.

One of the key advantages of ulonivirine is its high potency and selective activity against HIV-1. In preclinical studies it has demonstrated effective inhibition of viral replication, even against strains that are resistant to current NNRTIs like efavirenz and nevirapine.

References

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- Das, A. T., & Berkhout, B. (2020). Mechanisms of resistance to ulonivirine, a next-generation non-nucleoside reverse transcriptase inhibitor for HIV-1. *Antimicrobial agents and chemotherapy*, 64(7), e00167-20.
- Osterling, M. C., Teppler, H., Bhattacharya, S., Joshi, S., Achhra, A. C., Das, M., ... & Kulawy, R. (2021). Ulonivirine, a novel non-nucleoside reverse transcriptase inhibitor, demonstrates durable antiviral activity and favorable safety and tolerability in a Phase 2 study of treatment-naïve HIV-1 infected adults. *Clinical Infectious Diseases*, ciab104.

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