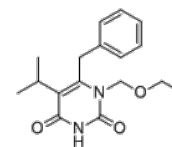


Product Name : Emivirine
Cat. No. : PC-38744
CAS No. : 149950-60-7
Molecular Formula : C₁₇H₂₂N₂O₃
Molecular Weight : 302.37
Target : HIV
Solubility : 10 mM in DMSO



Biological Activity

Emivirine (MKC-442) is a highly potent and selective inhibitor of **HIV-1 reverse transcriptase** (RT) with IC₅₀ of 8 nM, does not inhibit HIV-1 RNase H, other RTs, or DNA polymerase alpha.

Emivirine (MKC-442) exhibits synergistic inhibition of HIV-1 RT with 3'-azido-2',3'-dideoxythymidine (AZT) 5'-triphosphate (AZT.TP).

Emivirine (MKC-442) potently inhibits HIV-1 (HTLV-III_B strain) replication in MT-4 cells with IC₅₀ and IC₉₀ values of 15 and 98 nM, respectively, also inhibits HIV-1 replication in peripheral blood lymphocytes and monocyte-macrophages.

Emivirine (MKC-442) is equally active against zidovudine-resistant mutants and zidovudine-susceptible strains.

References

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Baba M, et al. *Antimicrob Agents Chemother*. 1994 Apr;38(4):688-92.

Brennan TM, et al. *Antiviral Res*. 1995 Mar;26(2):173-87.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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