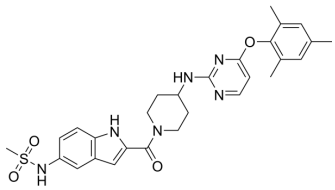
HIV-1 inhibitor-55

Cat. No.:	HY-152560
CAS No.:	2771211-73-3
Molecular Formula:	$C_{28}H_{32}N_6O_4S$
Molecular Weight:	548.66
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HIV-1 inhibitor-55 (compound 4d) inhibits WT HIV-1 with an EC_{50} value of 8.6 nM. HIV-1 inhibitor-55 also shows inhibitory potency against single and double HIV-1 mutants. HIV-1 inhibitor-55 can be used for the research of virus infection[1].
In Vitro	HIV-1 inhibitor-55 shows inhibitory potency against WT HIV-1 with an EC_{50} value of 8.6 nM[1]. HIV-1 inhibitor-55 shows potent activities against reverse transcriptase (RT) HIV-1 mutants L100I, K103N, Y181C, Y188L, E138K and F227L + V106A with EC_{50} values of 1.1, 0.12, 0.36, 0.75, 0.033 and 3.06 μM, respectively[1]. HIV-1 inhibitor-55 inhibits WT HIV-1 RT activity with an IC_{50} value of 0.11 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ming W, et al. Hybrids of delavirdine and piperdin-4-yl-aminopyrimidines (DPAPYs) as potent HIV-1 NNRTIs: Design, synthesis and biological activities. Eur J Med Chem. 2023 Feb 15;248:115114.

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