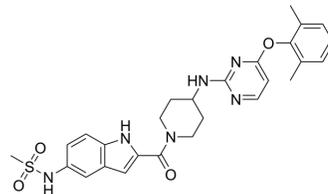


## HIV-1 inhibitor-54

Cat. No.:	HY-152539
CAS No.:	2771211-71-1
Molecular Formula:	C <sub>27</sub> H <sub>30</sub> N <sub>6</sub> O <sub>4</sub> S
Molecular Weight:	534.63
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	HIV-1 inhibitor-54 is a potent HIV-1 inhibitor. HIV-1 inhibitor-54 has anti-HIV activity in MT-4 cells against WT HIV-1 (strain IIB) with an EC <sub>50</sub> value of 0.032 μM. HIV-1 inhibitor-54 can be used for the research of virus infection <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	HIV-1
<b>In Vitro</b>	HIV-1 inhibitor-54 (compound 4c) has potent activities against reverse transcriptase (RT) HIV-1 mutants E138K, K103 N, Y188L, Y181C, F227L+V106A and L100I with EC <sub>50</sub> values of 0.080, 0.52, 0.67, 0.84, 2.7 and 3.3 μM, respectively <sup>[1]</sup> . HIV-1 inhibitor-54 inhibits WT HIV-1 RT activity with an IC <sub>50</sub> value of 12 μM <sup>[1]</sup> . 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 piperidin-4-yl-aminopyrimidines (DPAPYs) as potent HIV-1 NNRTIs: Design, synthesis and biological activities. Eur J Med Chem. 2023 Feb 15;248:115114.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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