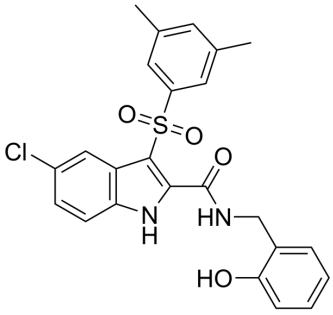
HIV-1 inhibitor-43

Cat. No.:	HY-150599
CAS No.:	2493426-43-8
Molecular Formula:	$C_{24}H_{21}ClN_2O_4S$
Molecular Weight:	468.95
Target:	HIV; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HIV-1 inhibitor-43 is a potent HIV-1 inhibitor with an EC_{50} of 21.3 nM, 6.2 nM, < 0.7 nM and < 0.7 nM for Y188L, K103N-Y181C, K103N and Y181C, respectively. HIV-1 inhibitor-43 can reduce HIV-1 RNA and protein p24 expression[1].			
IC_{50} & Target	HIV-1 (Y188L) 21.3 nM (EC50)	HIV-1 (K103N+Y181C) 6.2 nM (EC50)	HIV-1 (K103N) <0.7 nM (EC50)	HIV-1 (Y181C) <0.7 nM (EC50)
In Vitro	HIV-1 inhibitor-43 (compound 12) has anti-HIV-1 activity against HIV-1 reverse transcriptase with IC_{50}s of 83±8 nM, 73±8 nM, 61±6 nM and 76±8 nM for HIV-1 WT, K103N, Y181I and K103N-Y181I, respectively[1]. HIV-1 inhibitor-43 (1, 5 and 25 nM) causes 100% reduction of HIV-1 RNA and protein p24 at 25 nM in C8166 cells infected with a WT strain[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Nalli M, et al. New indolylarylsulfone non-nucleoside reverse transcriptase inhibitors show low nanomolar inhibition of single and double HIV-1 mutant strains. Eur J Med Chem. 2020 Dec 15;208:112696.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA