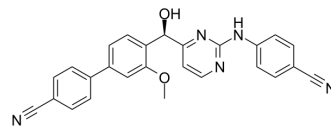


HIV-1 inhibitor-25

Cat. No.:	HY-146019A
CAS No.:	2475658-74-1
Molecular Formula:	C ₂₆ H ₁₉ N ₅ O ₂
Molecular Weight:	433.46
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-25 (compound R-12a) is a highly potent HIV-1 reverse transcriptase, with an IC ₅₀ value of 0.1061 μM. HIV-1 inhibitor-25 has high antiretroviral activity against WT HIV-1 with an EC ₅₀ of 13.6 nM, and exhibits relatively low cytotoxicity with a CC ₅₀ of 33.13 μM in MT-4 cells. HIV-1 inhibitor-25 also has inhibitory activity against HIV-1 mutant strains (L100I, K103N, Y181C, Y188L, E138K, F227L+V106A) with EC ₅₀ of 0.1961 ~ 5.8136 μM. HIV-1 inhibitor-25 can be used for researching AIDS ^[1] .			
IC₅₀ & Target	HIV (IIIB)	HIV-1 (L100I)	HIV-1 (K103N)	HIV-1 (Y181C)
	13.6 nM (EC ₅₀)	1.2458 ± 0 μM (EC ₅₀)	0.4383 ± 0 μM (EC ₅₀)	0.5075 ± 0 μM (EC ₅₀)
	HIV-1 (Y188L)	HIV-1 (E138K)	HIV-1 (F227L+V106A)	
	5.8136 ± 2 μM (EC ₅₀)	0.1961 ± 0 μM (EC ₅₀)	3.0683 ± 0 μM (EC ₅₀)	

REFERENCES

[1]. Chen X, et al. Bioisosterism-based design and enantiomeric profiling of chiral hydroxyl-substituted biphenyl-diarylpyrimidine nonnucleoside HIV-1 reverse transcriptase inhibitors. *Eur J Med Chem.* 2020;202:112549.

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

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