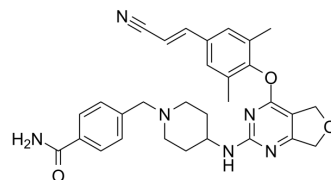


HIV-1 inhibitor-13

Cat. No.:	HY-144112
Molecular Formula:	C ₃₀ H ₃₂ N ₆ O ₃
Molecular Weight:	524.61
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-13 (compound 16c) is an orally active and potent HIV-1 non-nucleoside reverse transcriptase inhibitor (NNRTI), with IC ₅₀ of 0.14 μM (HIV-1 RT). HIV-1 inhibitor-13 shows activity against a panel of HIV-1 resistant strains, with EC ₅₀ values of 2.85-18.0 nM ^[1] .
IC₅₀ & Target	HIV-1 (WT) 2.85 ± 1.1 nM (EC ₅₀)
In Vivo	HIV-1 inhibitor-13 (compound 16c) (SD rats; 2 mg/kg, IV; 10 mg/kg, PO; once) exhibits favorable pharmacokinetic profiles (F = 32.1% and T _{1/2} = 0.88 and 1.05 h, respectively) ^[1] . HIV-1 inhibitor-13 (Kunming mice, 2000 mg/kg, PO, once) shows safety in Kunming mice (LD ₅₀ > 2000 mg/kg) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kang D, et al. Development of Novel Dihydrofuro[3,4-d]pyrimidine Derivatives as HIV-1 NNRTIs to Overcome the Highly Resistant Mutant Strains F227L/V106A and K103N/Y181C. *J Med Chem.* 2022 Feb 10;65(3):2458-2470.

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

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