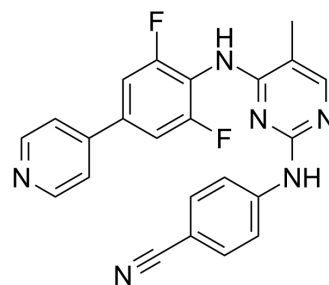


HIV-1 inhibitor-16

Cat. No.:	HY-144123
CAS No.:	2719675-72-4
Molecular Formula:	C ₂₃ H ₁₆ F ₂ N ₆
Molecular Weight:	414.41
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-16 (compound 7a) is a highly potent HIV-1 inhibitor with an EC ₅₀ value of 1.3 nM for HIV-1 WT. HIV-1 inhibitor-16 also has certain inhibitory activity against HIV-1 K103N, E138K, Y181C and L100I strains with EC ₅₀ s of 5.4 nM, 9.2 nM, 22 nM and 35 nM. HIV-1 inhibitor-16 has favorable solubility and liver microsome stability, and does not exhibit apparent CYP enzymatic inhibitory activity or acute toxicity ^[1] .			
IC₅₀ & Target	HIV-1 (WT) 1.3 nM (EC ₅₀)	HIV-1 (K103N) 5.4 nM (EC ₅₀)	HIV-1 (E138K) 9.2 nM (EC ₅₀)	HIV-1 (Y181C) 22 nM (EC ₅₀)
	HIV-1 (L100I) 35 nM (EC ₅₀)			

REFERENCES

[1]. Ding L, et al. Discovery of Novel Pyridine-Dimethyl-Phenyl-DAPY Hybrids by Molecular Fusing of Methyl-Pyrimidine-DAPYs and Difluoro-Pyridinyl-DAPYs: Improving the Druggability toward High Inhibitory Activity, Solubility, Safety, and PK. *J Med Chem.* 2022;65(3):2122-2138.

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

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