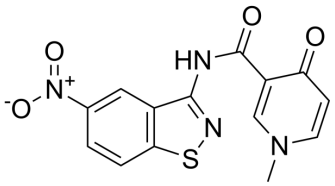
HIV-1 inhibitor-6

Cat. No.:	HY-134851
CAS No.:	1821309-39-0
Molecular Formula:	$C_{14}H_{10}N_4O_4S$
Molecular Weight:	330.32
Target:	HIV
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (10.08 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0274 mL	15.1368 mL	30.2737 mL
	5 mM	0.6055 mL	3.0274 mL	6.0547 mL
	10 mM	0.3027 mL	1.5137 mL	3.0274 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

HIV-1 inhibitor-6 (compound 9), a diheteroarylamide-based compound, is a potent HIV-1 pre-mRNA alternative splicing inhibitor. HIV-1 inhibitor-6 blocks HIV replication. HIV-1 inhibitor-6 is active against wild-type HIV-1IIIB (subtype B, X4-tropic) and HIV-1 97USSN54 (subtype A, R5-tropic) with EC_{50}s of 0.6 μM and 0.9 μM, respectively. HIV-1 inhibitor-6 inhibits HIV strains resistant to agents targeting HIV reverse transcriptase, protease, integrase, and coreceptor CCR5 with EC_{50}s ranging from 0.9 to 1.5 μM[1].

IC_{50} & Target		
	X4 HIV-1 (III_B) 0.6 μM (EC50)	R5 HIV-1 0.9 μM (EC50)

REFERENCES

[1]. Peter K Cheung, et al. A Parallel Synthesis Approach to the Identification of Novel Diheteroarylamide-Based Compounds Blocking HIV Replication: Potential Inhibitors of HIV-1 Pre-mRNA Alternative Splicing. J Med Chem. 2016 Mar 10;59(5):1869-79.

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

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