HIV-1 inhibitor-45

Cat. No.: HY-150759

CAS No.: 2677762-43-3

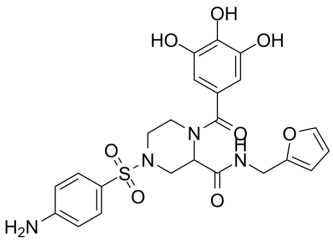
Molecular Formula: $C_{23}H_{24}N_4O_8S$

Molecular Weight: 516.52

Target: HIV

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (193.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9360 mL	9.6802 mL	19.3603 mL
	5 mM	0.3872 mL	1.9360 mL	3.8721 mL
	10 mM	0.1936 mL	0.9680 mL	1.9360 mL

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

BIOLOGICAL ACTIVITY

Description

HIV-1 inhibitor-45 (compound IA-6) is a potent HIV-1 RNase H inhibitor with an IC_{50} value of 0.067 μM. HIV-1 inhibitor-45 shows an antiviral activity[1].

IC_{50} & Target

HIV-1

In Vitro

HIV-1 inhibitor-45 (compound IA-6) (5 d) has antiviral activity and low toxicity with CC_{50} value of 24.7 μM in MT-4 cells[1].
HIV-1 inhibitor-45 (compound IA-6) (Caco-2 cells) contributes to the poormembrane permeability by polyphenolic skeleton [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang L, et, al. Design, synthesis, and biological evaluation of novel double-winged galloyl derivatives as HIV-1 RNase H inhibitors. Eur J Med Chem. 2022 Jun 26;240:114563.

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

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