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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Delavirdine

Cat. No.: HY-10571

CAS No.: 136817-59-9

Molecular Formula: $C_{22}H_{28}N_6O_3S$

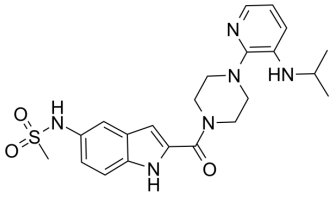
Molecular Weight: 456.56

Target: HIV; Reverse Transcriptase

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 : 17.5 mg/mL (38.33 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1903 mL	10.9515 mL	21.9029 mL
	5 mM	0.4381 mL	2.1903 mL	4.3806 mL
	10 mM	0.2190 mL	1.0951 mL	2.1903 mL

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

BIOLOGICAL ACTIVITY

Description

Delavirdine (U 90152) is a potent, highly specific and orally active non-nucleoside reverse transcriptase inhibitor (NNRTI). Delavirdine selectively inhibits HIV-1 reverse transcriptase (RT) (IC_{50}=0.26 μM) over DNA polymerase α (IC_{50}=440 μM) and polymerase δ (IC_{50}>550 μM). Delavirdine is an inhibitor of HIV-1 replication and can can be used for the study of AIDs[1].

IC_{50} & Target

IC50: 0.26 μM (HIV-1 RT); 440 μM (DNA polymerase α); >550 μM (DNA polymerase δ)[1]

In Vitro

Delavirdine has an 50% cytotoxicity at concentrations >100 μM in H9 and PBMC cultures.Delavirdine has low cellular cytotoxicity, causing less than 8% reduction in peripheral blood lymphocyte viability at 100 μM[1].

Delavirdine inhibits HIV-1 reverse transcriptase (RT) wild type with an IC_{50} value of 0.26 μM, and it inhibits Y181C-substituted RT and K103N-substituted RT with IC_{50} values of 8.32 uM and 7.7 uM, respectively[1].

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

In Vivo

Delavirdine (U 90152) (oral gavage; 10 mg/kg, 200 mg/kg, 250 mg/kg; single dose) is absorbed and metabolized rapidly, that it constitutes a minor component in circulation, that its pharmacokinetics are nonlinear, and that its metabolism to desalkyl delavirdine is capacity limited or inhibitable in CD-1 mice (PK study)[1].

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

CUSTOMER VALIDATION

- Int J Antimicrob Agents. 2019 Dec;54(6):814-819.
- Sci Rep. 2015 Oct 29;5:15806.
- Future Med Chem. 2018 Dec 17.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Dueweke TJ, et al. U-90152, a potent inhibitor of human immunodeficiency virus type 1 replication. Antimicrob Agents Chemother. 1993 May;37(5):1127-31.

[2]. Mayland Chang, et al. Metabolism of the HIV-1 Reverse Transcriptase Inhibitor Delavirdine In Mice. Research Article

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