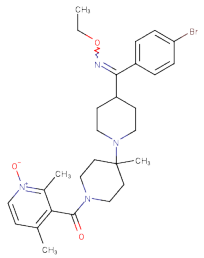
Data Sheet (Cat.No.T30047)

TargetMol

Ancriviroc

Chemical Properties



CAS No. : 370893-06-4

Formula: C28H37BrN4O3

Molecular Weight: 557.533

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ancriviroc (SCH-351125) is an oxime-piperidine compound with strong antiretroviral activity and an orally bioavailable small molecule chemokine receptor CCR5 antagonist (Kd value 9.27nM) that enters HIV-1 through the CCR5 co-receptor and is used to study HIV-1.
Targets(IC50)	HIV Protease,CCR
In vitro	**METHODS**: Chinese hamster ovary (CHO) cell membranes expressing human CCR5 were incubated with Ancriviroc (SCH-351125) (10-0.3 nM), and Ki values were calculated using GRAPHPAD PRISM software based on experimentally determined IC50 and KD values. **RESULTS** Ancriviroc (SCH-351125) inhibited the binding of RANTES to CHO cell membranes expressing human CCR5 in a dose-dependent manner with a Ki value of 2.9 nM; Ancriviroc (SCH-351125) bound to CCR5 with high affinity with a KD of 9.27 nM. [1]
In vivo	**METHODS**: In a SCID-mouse model treated with (SCH-351125) (30 mg/kg, orally, daily), HLA-ABC levels on implanted cells from treated and untreated mice were measured by FACS analysis using mAb W6/32. **RESULTS** SCH-C had potent and dose-dependent antiviral activity in the SCID-mouse model; MHC class I expression on implanted cells from (SCH-351125)-treated mice was reduced in a dose-dependent manner, further confirming the inhibition of viral replication by SCH-C. [1]

Solubility Information

Solubility	DMSO: 50 mg/mL (89.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7936 mL	8.9681 mL	17.9363 mL
5 mM	0.3587 mL	1.7936 mL	3.5873 mL
10 mM	0.1794 mL	0.8968 mL	1.7936 mL
50 mM	0.0359 mL	0.1794 mL	0.3587 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Strizki JM,et al. SCH-C (SCH 351125), an orally bioavailable, small molecule antagonist of the chemokine receptor CCR5, is a potent inhibitor of HIV-1 infection in vitro and in vivo. Proc Natl Acad Sci U S A. 2001 Oct 23;98(22): 12718-23.