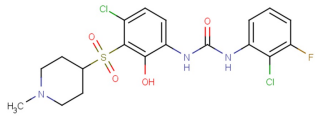
Data Sheet (Cat.No.T10905)

TargetMol
A DRUG SCREENING EXPERT

CXCR2-IN-1

Chemical Properties



CAS No.:	1873376-49-8
Formula:	C19H20Cl2FN3O4S
Molecular Weight:	476.35
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CXCR2-IN-1 has a pIC50 of 9.3 and is a CXCR2 antagonist of the central nervous system penetration agent.
Targets(IC_{50})	CXCR2: 9.3(pIC50)
In vitro	CXCR2 plays an important role in the activation and recruitment of neutrophils to the site of inflammation. CXCR2-IN-1 showed good central nervous system penetration characteristics (Br / Bl> 0.45).
In vivo	CXCR2-IN-1 has shown efficacy in oral copper ketone-induced demyelination models by oral administration, providing evidence to support CXCR2 as a potential therapeutic target for the treatment of demyelinating diseases such as multiple sclerosis.

Solubility Information

Solubility	DMSO: 5.4 mg/mL (11.34 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.099 mL	10.496 mL	20.993 mL
5 mM	0.42 mL	2.099 mL	4.199 mL
10 mM	0.21 mL	1.05 mL	2.099 mL
50 mM	0.042 mL	0.21 mL	0.42 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Xu H, et al. Discovery of CNS Penetrant CXCR2 Antagonists for the Potential Treatment of CNS Demyelinating Disorders. ACS Med Chem Lett. 2016 Feb 8;7(4):397-402.

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