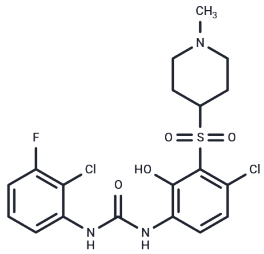
Data Sheet (Cat.No.T10905)

TargetMol

CXCR2-IN-1

Chemical Properties



CAS No. : 1873376-49-8

Formula: C19H20Cl2FN3O4S

Molecular Weight: 476.35

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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(IC50)	CXCR
In vitro	CXCR2 is crucial for activating and recruiting neutrophils to inflammation sites. CXCR2-IN-1 demonstrated favorable central nervous system penetration (Br/Bl>0.45) [1].
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[1].

Solubility Information

Solubility	DMSO: 4.5 mg/mL (9.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0993 mL	10.4965 mL	20.993 mL
5 mM	0.4199 mL	2.0993 mL	4.1986 mL
10 mM	0.2099 mL	1.0496 mL	2.0993 mL
50 mM	0.042 mL	0.2099 mL	0.4199 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.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481