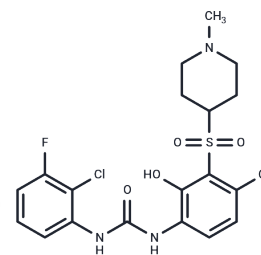


CXCR2-IN-1

Chemical Properties

CAS No. :	1873376-49-8
Formula:	C ₁₉ H ₂₀ Cl ₂ FN ₃ O ₄ S
Molecular Weight:	476.35
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	CXCR2-IN-1 has a pIC ₅₀ of 9.3 and is a CXCR2 antagonist of the central nervous system penetration agent.
Targets(IC ₅₀)	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 (9.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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

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

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