Screening Libraries

Product Data Sheet

CXCR2-IN-1

Cat. No.: HY-101022 CAS No.: 1873376-49-8 Molecular Formula: $C_{19}H_{20}Cl_{2}FN_{3}O_{4}S$

Molecular Weight: 476.35 Target: CXCR

Pathway: GPCR/G Protein; Immunology/Inflammation

Storage: Powder -20°C 3 years

4°C 2 years

-80°C In solvent 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: 5.4 mg/mL (11.34 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0993 mL	10.4965 mL	20.9930 mL
	5 mM	0.4199 mL	2.0993 mL	4.1986 mL
	10 mM	0.2099 mL	1.0496 mL	2.0993 mL

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

וחום	α CI	$c_{\Lambda I}$	CTIL	
BIOI	LOXGII	L.AI A	4U I IV	

Description	CXCR2-IN-1 is a central nervous system penetrant CXCR2 antagonist with a pIC ₅₀ of 9.3.
IC ₅₀ & Target	CXCR2 9.3 (pIC ₅₀)
In Vitro	CXCR2 plays an important role in the activation and recruitment of neutrophils to sites of inflammation. CXCR2-IN-1 (compound 22) shows favorable central nervous system penetration property (Br/Bl>0.45) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CXCR2-IN-1 shows efficacy in a cuprizone-induced demyelination model through oral administration, providing evidence to support CXCR2 to be a potential therapeutic target to treat demyelinating diseases such as multiple sclerosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal
Administration [1]

Mice: Mice are fed with cuprizone for 5 weeks to cause demyelinating lesions in the CNS and then orally administrated with CXCR2-IN-1 for 9 consecutive days at doses of 30 and 100 mg/kg twice daily^[1].

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

CUSTOMER VALIDATION

- Int Immunopharmacol. 2019 Nov;76:105877
- J Cell Mol Med. 2020 Sep;24(18):10604-10614.

See more customer validations on $\underline{www.MedChemExpress.com}$

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA