CXCR2-IN-2

Cat. No.:	HY-120878		
CAS No.:	1838123-21	-9	
Molecular Formula:	C ₁₈ H ₂₃ ClN ₂ O	₅S	
Molecular Weight:	414.9		
Target:	CXCR		
Pathway:	GPCR/G Pro	tein; Imm	nunology/Inflammation
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 240 mg/mL (5	78.45 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4102 mL	12.0511 mL	24.1022 mL
		5 mM	0.4820 mL	2.4102 mL	4.8204 mL
		10 mM	0.2410 mL	1.2051 mL	4.8204 mL 2.4102 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 6 mg/	one by one: 10% DMSO >> 90% cor mL (14.46 mM); Clear solution	n oil		

DIOLOGICALACITY		
Description	CXCR2-IN-2 is a selective, brain assay/CXCR2 Tango assay, res over all other chemokine rece 0.04 μM ^[1] .	n penetrant, and orally bioavailable CXCR2 antagonist (IC ₅₀ =5.2 nM/1 nM in β-arrestin spectively). CXCR2-IN-2 displays ~730-fold selectivity over CXCR1 and >1900-fold selectivity ptors. CXCR2-IN-2 inhibits human whole blood Gro-α induced CD11b expression with an IC ₅₀ of
IC₅₀ & Target	CXCR2 5.2 nM (IC ₅₀)	CXCR1 3.8 μM (IC ₅₀)
In Vivo	CXCR2-IN-2 (compound 68) (1- in rat and mouse air pouch mo MCE has not independently co	-10 mg/kg; p.o.; twice daily for 3 days) dose-dependently reduces neutrophil infiltration in vivo odels ^[1] . onfirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

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Animal Model:	6-8 week old male C57Bl/6 mice (Air Pouch Model in Mouse) ^[1]
Dosage:	1, 3, and 10 mg/kg
Administration:	P.o.; twice daily for 3 days
Result:	Significantly inhibited neutrophil infiltration into mouse air pouch.
	0.10 weeks ald made Winter mate (Air Davish Madel in Dat)[1]
Animal Model:	8-10 week old male wistar rats (Air Pouch Model in Rat) ¹⁻³
Animal Model: Dosage:	1, 3, and 10 mg/kg
Animal Model: Dosage: Administration:	1, 3, and 10 mg/kg P.o.; twice daily for 3 days

CUSTOMER VALIDATION

• J Inflamm Res. 2021 Apr 12;14:1375-1385.

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REFERENCES

[1]. Lu H, et al. Discovery of Novel 1-Cyclopentenyl-3-phenylureas as Selective, Brain Penetrant, and Orally Bioavailable CXCR2 Antagonists. J Med Chem. 2018;61(6):2518-2532.

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

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