LIT-927

Cat. No.:	HY-112709				
CAS No.:	2172879-52-	-4			
Molecular Formula:	C ₁₇ H ₁₃ ClN ₂ O ₃				
Molecular Weight:	328.75				
Target:	CXCR				
Pathway:	GPCR/G Protein; Immunology/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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In Vitro	Preparing Stock Solutions	38.02 mM; Need ultrasonic) Solvent Concentration	1 mg	5 mg	10 mg		
		1 mM	3.0418 mL	15.2091 mL	30.4182 mL		
		5 mM	0.6084 mL	3.0418 mL	6.0837 mL		
		10 mM	0.3042 mL	1.5209 mL	3.0418 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent o Solubility: ≥ 1.25 n	one by one: 10% DMSO >> 40% PEC ng/mL (3.80 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			

Description	LIT-927 is a locally and orally active CXCL12 neutraligand with anti-inflammatory effect, with a K _i of 267 nM for CXCL12 binding to its specific receptor CXCR4 ^[1] .				
IC ₅₀ & Target	CXCL12/CXCR4 267 nM (Ki)				
In Vitro	LIT-927 is a locally and orally active CXCL12 neutraligand with anti-inflammatory effect, with a K _i of 267 nM for CXCL12 binding to CXCR4. Compounds 50, 57 (LIT-927), 65, and 67 are the most potent and soluble cyclic neutraligands identified in vitro and are representative of four novel chemotypes: pyrazoline, pyrimidinone, benzofuranone, and chromanone. LIT-927 is bound to a wide and accessible pocket, which is incompatible with the observed nanomolar binding affinities of our neutraligands ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

Product Data Sheet

CI

NH

0.

ОН



In Vivo

LIT-927 (compound 57) reduces eosinophil recruitment in a murine model of allergic airway hypereosinophilia, LIT-927 is the only one to display inhibitory activity following oral administration. Combined with a high binding selectivity for CXCL12 over other chemokines, LIT-927 represents a powerful pharmacological tool to investigate CXCL12 physiology in vivo and to explore the activity of chemokine neutralization in inflammatory and related diseases^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Regenass P, et al. Discovery of a Locally and Orally Active CXCL12 Neutraligand (LIT-927) with Anti-inflammatory Effect in a Murine Model of Allergic Airway Hypereosinophilia. J Med Chem. 2018 Sep 13;61(17):7671-7686.

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

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