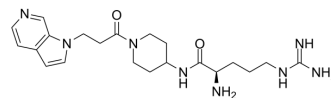


CXCR4 modulator-2

Cat. No.:	HY-146054
CAS No.:	2488943-55-9
Molecular Formula:	C ₂₁ H ₃₂ N ₈ O ₂
Molecular Weight:	428.53
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CXCR4 modulator-2 (compound Z7R) is a highly potent CXCR4 modulator with an IC ₅₀ value of 1.25 nM. CXCR4 modulator-2 has acceptable stability (t _{1/2} = 77.1 min) in mouse serum and exhibits anti-inflammatory activity in mouse edema mode ^[1] .									
IC₅₀ & Target	CXCR4 1.25 nM (IC ₅₀)									
In Vivo	<p>CXCR4 modulator-2 (10 mg/kg; IP; single dosage) significantly reduces the edema weights (-50%) in the lesion and decreases the expression of CXCR4s^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>male nude mice (6 weeks, 20 g; subcutaneous injection of 50 μL of λ-carrageenan)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>IP; single dosage</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced the edema weights (≈50%) in the lesion and decreased the expression of CXCR4s.</td> </tr> </table>		Animal Model:	male nude mice (6 weeks, 20 g; subcutaneous injection of 50 μL of λ-carrageenan) ^[1]	Dosage:	10 mg/kg	Administration:	IP; single dosage	Result:	Significantly reduced the edema weights (≈50%) in the lesion and decreased the expression of CXCR4s.
Animal Model:	male nude mice (6 weeks, 20 g; subcutaneous injection of 50 μL of λ-carrageenan) ^[1]									
Dosage:	10 mg/kg									
Administration:	IP; single dosage									
Result:	Significantly reduced the edema weights (≈50%) in the lesion and decreased the expression of CXCR4s.									

REFERENCES

[1]. Oum YH, et al. Discovery of novel aminopiperidinyl amide CXCR4 modulators through virtual screening and rational drug design. *Eur J Med Chem.* 2020;201:112479.

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