CXCL-CXCR1/2-IN-1

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®

Cat. No.:	HY-163475	
CAS No.:	2415653-55-1	
Molecular Formula:	C ₁₄ H ₈ Cl ₂ N ₄ O ₃ S	
Molecular Weight:	383.21	
Target:	CXCR	
Pathway:	GPCR/G Protein; Immunology/Inflammation	N
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV		
Description	CXCL-CXCR1/2-IN-1 is an oral CXCR1/2-IN-1 shows antican	lly active ELR ⁺ CXCL-CXCR1/2 pathway inhibitor with an EC ₅₀ of 42.7 nM for CXCR2 ^[1] . CXCL-cer and antiangiogenic effects ^[1] .
In Vitro	In renal cell carcinoma (RCC) carcinoma (HNSCC) cell lines CXCR1/2-IN-1 (compound 10 A498, RCC4, 786, 786-R, CAL3 CXCL-CXCR1/2-IN-1 inhibits t CXCL-CXCR1/2-IN-1 (1-2.5 µM CXCR1/2-IN-1 also exhibits th proangiogenic ELR ⁺ CXCL cyt MCE has not independently o Western Blot Analysis ^[1]	cell lines (A498, RCC4, 786, and Sunitinib-resistant RCC cell line 786-R) and neck squamous cell s (CAL33, CAL27, Cisplatin- and radiotherapy-resistant cell lines CAL33RR and CAL27RR), CXCL-) shows IC ₅₀ values of 2 μM, 2 μM, 2.5 μM, 2 μM, 3 μM, 4 μM, 4 μM, 2.5 μM, and 2.5 μM against B3, CAL27, CAL33RR, and CAL27RR, respectively ^[1] . the migration of A498 cancer cells in vitro ^[1] . It; 24-48 h) shows a reduction in the phosphorylation of ERK and AKT in A498 cells. CXCL- ne capability to inhibit the secretion of CXCL1, CXCL5, and CXCL8, which are representative okines ^[1] . confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	A498 cells
	Concentration:	2.5 μΜ
	Incubation Time:	24 or 48 h
	Result:	Showed a reduction in the phosphorylation of ERK and AKT.
	RT-PCR ^[1]	
	Cell Line:	A498 cells
	Concentration:	1 or 2.5 μM
	Incubation Time:	48 h
	Result:	Inhibited the levels of CXCL1, CXCL5, CXCL8, and VEGFA mRNA.
In Vivo	CXCL-CXCR1/2-IN-1 (1 μM; 48 CXCL-CXCR1/2-IN-1 (100 mg/ MCE has not independently α	(h) reduces metastasis area in zebrafish embryos injected with A498 cells ^[1] . (kg; oral gavage; twice a day; for 28 days) inhibits tumor growth in mice ^[1] . confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female NOD SCID mice injected with 786 RCC cells ^[1]
Dosage:	100 mg/kg
Administration:	Oral gavage; twice a day; for 28 days
Result:	Exhibited remarkable results, with a tumor growth inhibition rate of 87%

REFERENCES

[1]. Oleksandr Grytsai, et al. A Potent Solution for Tumor Growth and Angiogenesis Suppression via an ELR+CXCL-CXCR1/2 Pathway Inhibitor. ACS Med. Chem. Lett. April 3, 2024.

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