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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

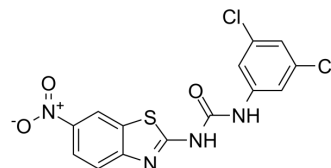
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

CXCL-CXCR1/2-IN-1

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		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.17 mg/mL (10.88 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6095 mL	13.0477 mL	26.0954 mL
	5 mM	0.5219 mL	2.6095 mL	5.2191 mL
	10 mM	0.2610 mL	1.3048 mL	2.6095 mL

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

BIOLOGICAL ACTIVITY

Description

CXCL-CXCR1/2-IN-1 is an orally active ELR⁺CXCL-CXCR1/2 pathway inhibitor with an EC₅₀ of 42.7 nM for CXCR2^[1]. CXCL-CXCR1/2-IN-1 shows anticancer and antiangiogenic effects^[1].

In Vitro

In renal cell carcinoma (RCC) cell lines (A498, RCC4, 786, and Sunitinib-resistant RCC cell line 786-R) and neck squamous cell carcinoma (HNSCC) cell lines (CAL33, CAL27, Cisplatin- and radiotherapy-resistant cell lines CAL33RR and CAL27RR), CXCL-CXCR1/2-IN-1 (compound 10) shows IC₅₀ 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 A498, RCC4, 786, 786-R, CAL33, CAL27, CAL33RR, and CAL27RR, respectively^[1].

CXCL-CXCR1/2-IN-1 inhibits the migration of A498 cancer cells in vitro^[1].

CXCL-CXCR1/2-IN-1 (1-2.5 μM; 24-48 h) shows a reduction in the phosphorylation of ERK and AKT in A498 cells. CXCL-CXCR1/2-IN-1 also exhibits the capability to inhibit the secretion of CXCL1, CXCL5, and CXCL8, which are representative proangiogenic ELR⁺CXCL cytokines^[1].

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

Western Blot Analysis^[1]

Cell Line:	A498 cells
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	Concentration:	2.5 μ M
	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 μ M
	Incubation Time:	48 h
	Result:	Inhibited the levels of CXCL1, CXCL5, CXCL8, and VEGFA mRNA.
In Vivo	<p>CXCL-CXCR1/2-IN-1 (1 μM; 48 h) reduces metastasis area in zebrafish embryos injected with A498 cells^[1]. CXCL-CXCR1/2-IN-1 (100 mg/kg; oral gavage; twice a day; for 28 days) inhibits tumor growth in mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	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