## SB-265610

Cat. No.:	HY-50688		
CAS No.:	211096-49-0	)	
Molecular Formula:	$C_{14}H_9BrN_6O$		
Molecular Weight:	357.16		
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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### SOLVENT & SOLUBILITY

In Vitro DMSO : 31.25 mg/ml Preparing Stock Solutions	DMSO : 31.25 mg/mL (87.50 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.7999 mL	13.9993 mL	27.9987 mL		
		5 mM	0.5600 mL	2.7999 mL	5.5997 mL	
	10 mM	0.2800 mL	1.3999 mL	2.7999 mL		
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (7.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.00 mM); Clear solution</li> </ol>					

Description	SB-265610 is a selective, competitive, nonpeptide and allosteric CXCR2 antagonist. SB-265610 blocks rat cytokine-induced neutrophil chemoattractant-1 (CINC-1)-induced calcium mobilization and neutrophil chemotaxis with IC <sub>50</sub> s of 3.7 nM and 70 nM, respectively <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	CXCR2		
In Vitro	In vitro, SB-265610 antagonizes rat cytokine-induced neutrophil chemoattractant-1 (CINC-1)-induced calcium mobilization, IC <sub>50</sub> of 3.7 nM, and rat neutrophil chemotaxis in a concentration-dependent manner, IC <sub>50</sub> of 70 nM. SB-265610 reduces the antiapoptotic effect of CINC-1 to the levels of those untreated with CINC-1 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

# Product Data Sheet

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In Vivo	SB-265610 (2 mg/kg/day; i.p.; daily; for two weeks) treatment significantly inhibits the recruitment of Gr-1+CD11b+ cells to the mammary adenocarcinoma with Tgfbr2 deletion but not the control tumors <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	MMTV-PyVmT/Tgfbr2 <sup>MGKO</sup> and MMTV-PyVmT/Tgfbr2 <sup>flox/flox</sup> tumors from donor mice <sup>[3]</sup>	
	Dosage:	2 mg/kg/day	
	Administration:	Intraperitoneal injection; daily; for two weeks	
	Result:	Significantly inhibited the recruitment of Gr-1+CD11b+ cells to the mammary adenocarcinoma.	

### **CUSTOMER VALIDATION**

• Oncogene. 2023 Aug 31.

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#### REFERENCES

[1]. Auten RL, et al. Nonpeptide CXCR2 antagonist prevents neutrophil accumulation in hyperoxia-exposed newborn rats. J Pharmacol Exp Ther. 2001 Oct;299(1):90-5.

[2]. Milatovic S, et al. Impaired healing of nitrogen mustard wounds in CXCR2 null mice. Wound Repair Regen. 2003 May-Jun;11(3):213-9.

[3]. Li Yang, et al. Abrogation of TGF beta signaling in mammary carcinomas recruits Gr-1+CD11b+ myeloid cells that promote metastasis. Cancer Cell. 2008 Jan;13(1):23-35.

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