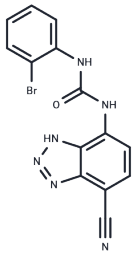
Data Sheet (Cat.No.T16850)

TargetMol

SB-265610

Chemical Properties



CAS No. : 211096-49-0

Formula: C14H9BrN6O

Molecular Weight: 357.16

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SB-265610 (GSK-CXCR2) is a nonpeptide and allosteric CXCR2 antagonist. SB-265610 blocks rat cytokine-induced neutrophil chemoattractant-1 (CINC-1)-induced calcium mobilization and neutrophil chemotaxis (IC50s: 3.7 nM and 70 nM, respectively).
Targets(IC50)	CXCR
In vitro	SB-265610 decreases the antiapoptotic effect of CINC-1 to the levels of those untreated with CINC-1. SB-265610 antagonizes rat cytokine-induced neutrophil chemoattractant-1 (CINC-1)-induced calcium mobilization (IC50 of 3.7 nM) and rat neutrophil chemotaxis in a concentration-dependent manner (IC50 of 70 nM) [1].
In vivo	SB-265610 (100 mg/kg/day;p.o; daily; for 5 days; CXCR2 wild type mice) treatment markedly delays healing parameters in CXCR2 wild type mice during the wound repair process[2].

Solubility Information

Solubility	DMSO: 66 mg/mL (184.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.6 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7999 mL	13.9993 mL	27.9987 mL
5 mM	0.560 mL	2.7999 mL	5.5997 mL
10 mM	0.280 mL	1.3999 mL	2.7999 mL
50 mM	0.056 mL	0.280 mL	0.560 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481