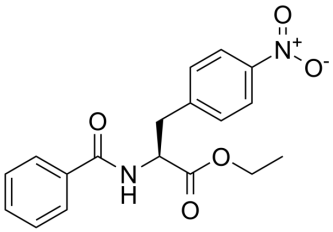
SB297006

Cat. No.:	HY-103361
CAS No.:	58816-69-6
Molecular Formula:	$C_{18}H_{18}N_2O_5$
Molecular Weight:	342.35
Target:	CCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (438.15 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9210 mL	14.6049 mL	29.2099 mL
5 mM	0.5842 mL	2.9210 mL	5.8420 mL
10 mM	0.2921 mL	1.4605 mL	2.9210 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SB297006 is a CCR3 antagonist, which significantly inhibits proliferation and neurosphere formation in CCL11-treated neural progenitor cells.

IC_{50} & Target

CCR3[1]

In Vitro

SB297006 is a CCR3 antagonist, significantly inhibits proliferation and neurosphere formation in CCL11-treated neural progenitor cells (NPCs) at 100 μM[1].

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

PROTOCOL

Cell Assay [1]

To evaluate CCR3 blocking, neural progenitor cells (NPCs) are incubated with the CCR3 antagonist SB297006 (100 μM) for 30 minutes and then stimulated with CCL11 (2 μg/mL). After 3 days of culture, NPCs are subjected to CCK-8 assays[1].

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

CUSTOMER VALIDATION

- Nat Commun. 2021 Jul 22;12(1):4457.

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REFERENCES

[1]. Wang F, et al. CCL11 promotes migration and proliferation of mouse neural progenitor cells. Stem Cell Res Ther. 2017 Feb 7;8(1):26.

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