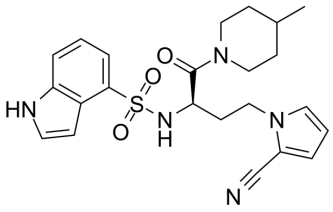
BI-6901

Cat. No.:	HY-116835
CAS No.:	2040401-92-9
Molecular Formula:	$C_{23}H_{27}N_5O_3S$
Molecular Weight:	453.56
Target:	CCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 160 mg/mL (352.76 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2048 mL	11.0239 mL	22.0478 mL
	5 mM	0.4410 mL	2.2048 mL	4.4096 mL
	10 mM	0.2205 mL	1.1024 mL	2.2048 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: 5 mg/mL (11.02 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 4 mg/mL (8.82 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 4 mg/mL (8.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BI 6901 is a potent, selective CCR10 antagonist (pIC_{50}=9.0). BI 6901 shows high selectivity over other GPCRs, including a number of other chemokine receptors. BI 6901 is efficacious in the murine DNFB model of contact hypersensitivity and can be used for inflammation research[1].

In Vivo

BI-6901 (intraperitoneal injection; 100 mg/kg; bid.) exhibits a dose-dependent anti-inflammatory response against DNFB stimulated ear swelling in sensitized mice. The level of efficacy observed for BI-6901 is similar to that observed with anti-CCL27 antibody in the same model (60-85%)[1].

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

Animal Model:	Balb-C mice with a DNFB model of contact hypersensitivity.
Dosage:	100 mg/kg
Administration:	Intraperitoneal injection
Result:	Had a inhibitory effect on the DNFB stimulated inflammatory response in sensitized Balb-c mice.

REFERENCES

[1]. Asitha Abeywardane, et al. N-Arylsulfonyl-α-amino carboxamides are potent and selective inhibitors of the chemokine receptor CCR10 that show efficacy in the murine DNFB model of contact hypersensitivity. Bioorg Med Chem Lett. 2016 Nov 1;26(21):5277-5283.

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