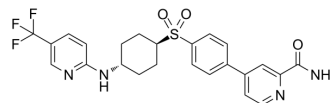


CCR6 inhibitor 1

Cat. No.:	HY-112701		
CAS No.:	2437547-04-9		
Molecular Formula:	C ₂₄ H ₂₃ F ₃ N ₄ O ₃ S		
Molecular Weight:	504.52		
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 : ≥ 125 mg/mL (247.76 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9821 mL	9.9104 mL	19.8208 mL
	5 mM	0.3964 mL	1.9821 mL	3.9642 mL
	10 mM	0.1982 mL	0.9910 mL	1.9821 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (4.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CCR6 inhibitor 1 is a potent and selective CCR6 inhibitor, with IC₅₀s of 0.45 and 6 nM for monkey and human CCR6, much more selective at CCR6 over human CCR1 (IC₅₀, > 30000 nM), and CCR7 (IC₅₀, 9400 nM). CCR6 inhibitor 1 markedly blocks ERK phosphorylation. CCR6 inhibitor 1 is used in the research of autoimmune diseases and cancer^[1].

IC₅₀ & Target

Monkey CCR6 0.45 nM (IC ₅₀)	Human CCR6 6 nM (IC ₅₀)	Human CCR7 9400 nM (IC ₅₀)
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In Vitro

CCR6 inhibitor 1 (Compound 35) inhibits L20-induced human B cell migration^[1].

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

CUSTOMER VALIDATION

- Clin Transl Med. 2023 Feb;13(2):e1198.
- Stem Cell Res Ther. 2022 Jul 15;13(1):294.
- J Pathol. 2022 Apr;256(4):414-426.
- Dent J Iwate Med Univ. 46: 19-32, 2021.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Tawaraishi T, et al. Identification of a novel series of potent and selective CCR6 inhibitors as biological probes. Bioorg Med Chem Lett. 2018 Oct 1;28(18):3067-3072.

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

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