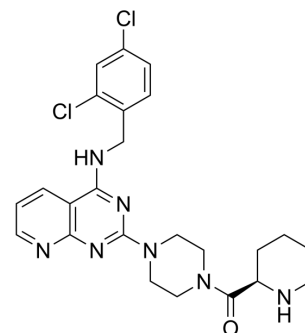


## CCR4 antagonist 4

<b>Cat. No.:</b>	HY-157453		
<b>CAS No.:</b>	668980-17-4		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> Cl <sub>2</sub> N <sub>7</sub> O		
<b>Molecular Weight:</b>	500.42		
<b>Target:</b>	CCR		
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (199.83 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9983 mL	9.9916 mL	19.9832 mL
5 mM	0.3997 mL	1.9983 mL	3.9966 mL
10 mM	0.1998 mL	0.9992 mL	1.9983 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: ≥ 2.5 mg/mL (5.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (5.00 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

CCR4 antagonist 4 (compound 22) is a selective and potent antagonist of the CC chemokine receptor-4 (CCR4), with an IC<sub>50</sub> of 0.02 μM. CCR4 antagonist 4 also blocks MDC-mediated chemotaxis (IC<sub>50</sub>: 0.007 μM) and Ca<sup>2+</sup> mobilization (IC<sub>50</sub>: 0.003 μM). CCR4 antagonist 4 can be used for allergic inflammation research<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

CCR4  
 0.02 μM (IC<sub>50</sub>)

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## REFERENCES

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[1]. Purandare AV, et al. Core exploration in optimization of chemokine receptor CCR4 antagonists. Bioorg Med Chem Lett. 2007 Feb 1;17(3):679-82.

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

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