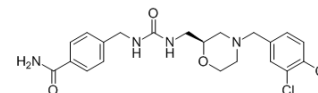


GW 766994

Cat. No.:	HY-107051		
CAS No.:	408303-43-5		
Molecular Formula:	C ₂₁ H ₂₄ Cl ₂ N ₄ O ₃		
Molecular Weight:	451.35		
Target:	CCR		
Pathway:	GPCR/G Protein; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 56 mg/mL (124.07 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2156 mL	11.0779 mL	22.1558 mL
		5 mM		0.4431 mL	2.2156 mL	4.4312 mL
		10 mM		0.2216 mL	1.1078 mL	2.2156 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.33 mg/mL (5.16 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.33 mg/mL (5.16 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.33 mg/mL (5.16 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	GW 766994 is a specific and oral chemokine receptor-3 (CCR3) antagonist, which has entered clinical trial for asthma and eosinophilic bronchitis.
IC ₅₀ & Target	CCR3 7.86 (pKi)

In Vitro

GW 766994 is a specific chemokine receptor-3 (CCR3) antagonist, which has entered clinical trial for asthma and eosinophilic bronchitis^[1]. GW 766994 (10 μ M) reverses CCL11-induced activation of CDK5, phosphorylations of CDK5, GSK3 β , and increased phosphorylation of tau in hippocampal neurons^[2].

REFERENCES

[1]. Neighbour H, et al. Safety and efficacy of an oral CCR3 antagonist in patients with asthma and eosinophilic bronchitis: a randomized, placebo-controlled clinical trial. *Clin Exp Allergy*. 2014 Apr;44(4):508-16.

[2]. Zhu C, et al. Targeting CCR3 to Reduce Amyloid- β Production, Tau Hyperphosphorylation, and Synaptic Loss in a Mouse Model of Alzheimer's Disease. *Mol Neurobiol*. 2017 Dec;54(10):7964-7978.

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

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