## CB1 antagonist 4

MedChemExpress

Cat. No.:	HY-112340		
CAS No.:	1253641-65-	-4	
Molecular Formula:	C <sub>30</sub> H <sub>25</sub> Cl <sub>2</sub> F <sub>3</sub> N	S⊔₄OS	
Molecular Weight:	617.51		
Target:	Cannabinoi	d Recepto	or
Pathway:	GPCR/G Pro	tein; Neu	ronal Signaling
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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## SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.6194 mL	8.0970 mL	16.1941 mL
		5 mM	0.3239 mL	1.6194 mL	3.2388 mL
		10 mM	0.1619 mL	0.8097 mL	1.6194 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent Solubility: ≥ 4.17 r	one by one: 10% DMSO >> 90% cor ng/mL (6.75 mM); Clear solution	n oil		

DIOLOGICAL ACTIV	
Description	CB1 antagonist 4 (compound 8) is a peripheral selective cannabinoid receptor type 1 (CB1) receptor antagonist. CB1 antagonist 4 shows limited penetrance to the brain in order to minimize or prevent CNS adverse reactions, and preserves potential antiobesity effects. CB1 antagonist 4 reduces propensity for psychiatric side effects <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	CB1
In Vivo	CB1 antagonist 4 (compound 8) (10-100 mg/kg; p.o.) induces a significant increase in freezing behavior at 100 mg/kg <sup>[1]</sup> .         MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Animal Model:       7-8 weeks old male C57BL/6 N mice (B6N) <sup>[1]</sup>

## Product Data Sheet

Dosage:	10, 30, or 100 mg/kg
Administration:	p.o.
Result:	High dose (100 mg/kg) induced a significant increase in freezing behavior.

## REFERENCES

[1]. Micale V, et al. The Cannabinoid CB1 Antagonist TM38837 With Limited Penetrance to the Brain Shows ReducedFear-Promoting Effects in Mice. Front Pharmacol. 2019 Mar 20;10:207.

[2]. Klumpers LE, et al. Peripheral selectivity of the novel cannabinoid receptor antagonist TM38837 in healthy subjects. Br J Clin Pharmacol. 2013 Dec;76(6):846-57.

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

 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