## CB2R antagonist 3

MedChemExpress

Cat. No.:	HY-152581				
Molecular Formula:	C <sub>27</sub> H <sub>42</sub> N <sub>2</sub> O				
Molecular Weight:	410.64				
Target:	Cannabinoid Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## SOLVENT & SOLUBILITY

In Vitro DMSO : 100 mg/mL (2	DMSO : 100 mg/mL (24	243.52 mM; ultrasonic and warming a Solvent Concentration	and heat to 60°C) 1 mg	5 mg	10 mg		
	1 mM	2.4352 mL	12.1761 mL	24.3522 mL			
		5 mM	0.4870 mL	2.4352 mL	4.8704 mL		
		10 mM	0.2435 mL	1.2176 mL	2.4352 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent Solubility: 2.5 mg,	one by one: 10% DMSO >> 90% cor /mL (6.09 mM); Clear solution; Need	n oil ultrasonic				

BIOLOGICAL ACTIVITY				
Description	CB2R antagonist 3 is a selective antagonist of cannabinoid type 2 receptor (CB2R). CB2R antagonist 3 has high affinity for human CB2R and specific selectivity for CB1R. CB2R antagonist 3 can be combined with CB65 (HY-110047), the activator of CB2R. CB2R antagonist 3 effectively up-regulates the expression of anti-inflammatory cytokines and down-regulates the expression of pro-inflammatory cytokines <sup>[1]</sup> .			
IC <sub>50</sub> & Target	CB2R			
In Vitro	CB2R antagonist 3 (compound 10a) (1 and 10 μM; 24 h) significantly reduces the TNF-α, IFN-γ, IL-1β, IL-6 pro-inflammatory cytokines expression and increases the IL-10 anti-inflammatory cytokines expression in monocytes and macrophages when combined with activator CB65 under the presence of lipopolysaccharide <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

N H

## REFERENCES

[1]. Graziano G, et al. N-adamantyl-anthranil amide derivatives: New selective ligands for the cannabinoid receptor subtype 2 (CB2R). Eur J Med Chem. 2023 Feb 15;248:115109.

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

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