CB1/2 agonist 3

Cat. No.:	HY-150029				
CAS No.:	2772655-86-2				
Molecular Formula:	C ₂₅ H ₄₁ NO ₂				
Molecular Weight:	387.6				
Target:	Cannabinoid Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (25.80 mM; Need ultrasonic)						
Prepa Stock		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.5800 mL	12.8999 mL	25.7998 mL		
		5 mM	0.5160 mL	2.5800 mL	5.1600 mL		
	10 mM	0.2580 mL	1.2900 mL	2.5800 mL			
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1 mg/mL (2.58 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.58 mM); Clear solution						

DIOLOGICAL ACTIVITY				
Description	CB1/2 agonist 3 (compound 52), a potent non-selective cannabinoid ligand, is a CB1/CB2 (cannabinoid receptor) competitive agonist. CB1/2 agonist 3 acts on hCB1 and hCB2 with K _i values of 5.9 nM and 3.5 nM, respectively ^[1] .			
IC ₅₀ & Target	hCB1-R 5.9 nM (Ki)	hCB2-R 3.5 nM (Ki)		
In Vitro	CB1/2 agonist 3 (compound 52) can partially induce [³⁵ S]GTPγS binding to hCB1-CHO cell membranes with an EC ₅₀ value of 30.99 nM, and slightly inhibit [³⁵ S]GTPγS binding to hCB2-CHO cell membranes with a mean EC ₅₀ value of 1.28 nM ^[1] . CB1/2 agonist 3 (compound 52) ((1 μM, 1 h) has antagonistic effect on CB1/CB2 agonist CP-55940 with a K _b value of 78.17 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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REFERENCES

[1]. Antonella Brizzi, et al. Synthetic bioactive olivetol-related amides: The influence of the phenolic group in cannabinoid receptor activity. Bioorg Med Chem. 2020 Jun 1;28(11):115513.

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

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