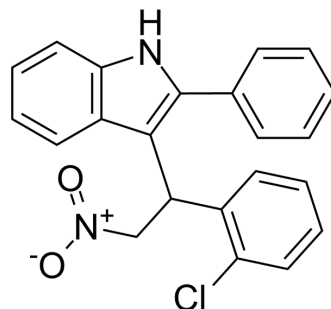


## CB1R Allosteric modulator 3

<b>Cat. No.:</b>	HY-150056		
<b>CAS No.:</b>	2633686-36-7		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	376.84		
<b>Target:</b>	Cannabinoid Receptor; Arrestin		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<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 (265.36 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6536 mL	13.2682 mL	26.5365 mL
5 mM	0.5307 mL	2.6536 mL	5.3073 mL
10 mM	0.2654 mL	1.3268 mL	2.6536 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

CB1R Allosteric modulator 3 is a CB1R positive allosteric modulator. CB1R Allosteric modulator 3 has potent inhibition of cAMP and  $\beta$ -Arrestin with EC<sub>50</sub> values of 0.018  $\mu$ M and 1.241  $\mu$ M, respectively<sup>[1]</sup>.

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

CB1

#### In Vitro

CB1R Allosteric modulator 3 (compound 44) (0.10 nM-10  $\mu$ M, 30 min) has potent inhibition of cAMP and  $\beta$ -Arrestin with EC<sub>50</sub> values of 0.018  $\mu$ M and 1.241  $\mu$ M, respectively<sup>[1]</sup>.

CB1R Allosteric modulator 3 can enhance CB1R ago-PAM activity because of small lipophilic functional groups on the ortho-position of the GAT211 site-III phenyl ring<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Peter C Schaffer, et al. Focused structure-activity relationship profiling around the 2-phenylindole scaffold of a cannabinoid type-1 receptor agonist-positive allosteric modulator: site-III aromatic-ring congeners with enhanced activity and solubility. *Bioorg Med Chem*. 2020 Nov 1;28(21):115727.

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

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