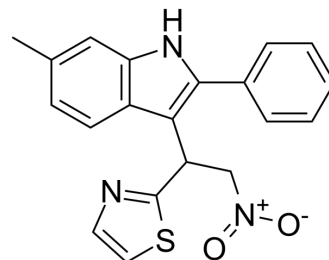


## CB1R Allosteric modulator 4

Cat. No.:	HY-150057
CAS No.:	2633686-53-8
Molecular Formula:	C <sub>20</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	363.43
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	CB1R Allosteric modulator 4 is a positive allosteric modulator of cannabinoid type-1 (CB1R) with good biological activity. CB1R Allosteric modulator 4 inhibits cAMP production and shows robust activity in β-arrestin-2 recruitment <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	hCB1-R
<b>In Vitro</b>	<p>CB1R is the most abundant G-protein coupled receptors (GPCR) in the CNS, CB1R involves in regulating physiological processes, from neurotransmission to energy metabolism<sup>[1]</sup>.</p> <p>CB1R Allosteric modulator 4 (compound 66b) (0.10 nM-10μM; 30 min) exerts inhibition of forskolin-stimulated cellular cAMP production in CHO hCB1R with an EC<sub>50</sub> value of 0.05 μM<sup>[1]</sup>.</p> <p>CB1R Allosteric modulator 4 (0.10 nM-10μM; 90 min) acts function for β-arrestin-2 recruitment in hCB1R-CHO-K1 cells with an EC<sub>50</sub> value of 0.163 μM<sup>[1]</sup>.</p> <p>CB1R Allosteric modulator 4 (1.6-200 μM; 2 h) improves aqueous solubility with good biological activity, and shows kinetic water solubility with solubility limit of 3.13 μM<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Schaffer PC, 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.

**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