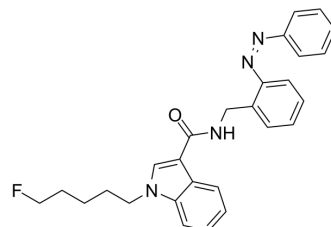


## CBR Agonist-1

<b>Cat. No.:</b>	HY-151105
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>27</sub> FN <sub>4</sub> O
<b>Molecular Weight:</b>	442.53
<b>Target:</b>	Cannabinoid Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	CBR Agonist-1 (27a-cis) is a cannabinoid receptor (CBR) agonist with the K <sub>i</sub> values of 0.18 μM for CB <sub>1</sub> R and 1.22 μM for CB <sub>2</sub> R. CBR Agonist-1 (27a-cis) can be used in the study of endogenous cannabinoid system-related diseases <sup>[1]</sup> .	
IC <sub>50</sub> & Target	rCB1-R 0.18 μM (Ki)	hCB2-R 1.22 μM (Ki)
In Vitro	<p>CBR Agonist-1 (27a-cis) (24 h) can activate GRABeCB2.0 (fluorescent CB<sub>1</sub>R sensor) in a concentration-dependent manner with the EC<sub>50</sub> value of 2.1 μM in HEK293T cell lines<sup>[1]</sup>.</p> <p>CBR Agonist-1 (27a-cis) (0-10 mM) acts on hCB<sub>1</sub>R calcium mobilization with the IC<sub>50</sub> value of 3.10 μM in overexpressed hCB<sub>1</sub>R CHO-K<sub>1</sub>cells<sup>[1]</sup>.</p> <p>CBR Agonist-1 (27a-cis) (10-1000 nM, 15 min) induces increased phosphorylation of extracellular signal-regulated kinases 1 and 2 (ERK1/2) in a dose-dependent manner in expressed Gαq16 and hCB<sub>1</sub> CHO cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

### REFERENCES

[1]. Diego A Rodríguez-Soacha, et al. Development of an Indole-Amide-Based Photoswitchable Cannabinoid Receptor Subtype 1 (CB<sub>1</sub>R) "Cis-On" Agonist. ACS Chem Neurosci. 2022 Jul 26.

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

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