

# Org 27569

Catalog No: tcsc0514



## Available Sizes

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

868273-06-7

**Formula:**

$C_{24}H_{28}ClN_3O$

**Pathway:**

GPCR/G Protein

**Target:**

Cannabinoid Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 52.2$  mg/mL (127.33 mM)

**Observed Molecular Weight:**

409.95

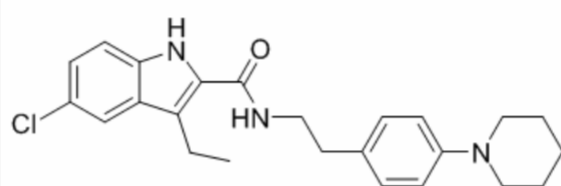
## Product Description

Org 27569 is a potent **CB1 receptor** allosteric modulator, which increases agonist binding, yet blocks agonist-induced CB1 signaling.

**In Vitro:** Org 27569 enhances agonist (CP55940) binding, promotes agonist binding to CB1 yet inhibits agonist-induced G protein activation and blocks the agonist-induced conformational changes in TM6. Org 27569 inhibits agonist-induced TM6 movement in CB1 detected by a fluorescent probe on site 342<sup>[2]</sup>. Org 27569 produces a significant, but saturable, increase in the level of specific [<sup>3</sup>

H]CP 55,940 binding. Org 27569 (1  $\mu$ M) inhibits electrically evoked contractions of the mouse vas deferens with the  $pEC_{50}$  and  $E_{max}$  being  $8.66 \pm 0.11$  and 77% (95% confidence limits, 70.6-82.7), respectively<sup>[4]</sup>. In hCB1R cells, Org 27569 (1 and 10  $\mu$ M) behaves as a weak inverse agonist producing a small but significant decrease in basal [<sup>35</sup>S]GTP $\gamma$ S binding. Org 27569 is less effective as an inhibitor of WIN55212-mediated inhibition of forskolin-stimulated cAMP production. Org 27569 induces a small but significant level of ERK1/2 phosphorylation with an  $E_{max}$  of 19% and  $pEC_{50}$  value of  $8.55 \pm 0.99$ <sup>[5]</sup>.

***In Vivo:*** ORG 27569 (3.2 and 5.6 mg/kg, i.p.) significantly attenuates cocaine associated cue-induced reinstatement, cocaine priming-induced reinstatement, methamphetamine associated cue-induced reinstatement and methamphetamine priming-induced reinstatement in rat<sup>[1]</sup>. Org27569 (30 mg/kg, i.p.) produces CB1-independent hypophagic effects and does not affect the discriminative stimulus effects of anandamide (AEA). Org27569 (100  $\mu$ g intracerebroventricularly) does not affect the pharmacologic effects of systemically administered CP55,940 compared with vehicle<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!