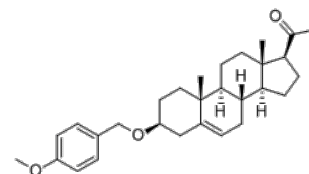


Product Name : AEF0117
Cat. No. : PC-20950
CAS No. : 1610878-71-1
Molecular Formula : C₂₉H₄₀O₃
Molecular Weight : 436.64
Target : Cannabinoid Receptor
Solubility : 10 mM in DMSO



CAS: 1610878-71-1

3beta-(4-methoxybenzyloxy)pregn-5-en-20-one

Biological Activity

AEF0117 (AEF-0117) is a potent, signaling-specific inhibitor of the **cannabinoid receptor 1** (CB1), inhibits the decrease in cellular respiration induced by THC (1 μM) in HEK293 cells transfected with hCB1 with IC₅₀ of 3 nM. AEF0117 inhibited Δ9-tetrahydrocannabinol (THC)-induced p-ERK1/2 in both cell lines with similar potency (IC₅₀ 300 nM) in CHO-hCB1 cells, and STHdhQ7/Q7 cells (mouse CB1). AEF0117 (15 μg/kg) significantly reduced intravenous (i.v.) self-administration of the CB1 agonist WIN55,212-2 in CD-1 Swiss male mice and of THC in male squirrel monkeys. AEF0117 (15 μg/kg) also inhibited THC-induced increases in nucleus accumbens (Nac) extracellular dopamine (DA) in freely moving rat. AEF0117 inhibited the effects of THC related to cannabis addiction in vivo.

References

Margaret Haney, et al. *Nat Med*. 2023 Jun;29(6):1487-1499.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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