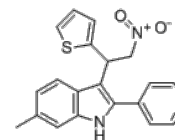


Product Name : ZCZ011
Cat. No. : PC-73251
CAS No. : 1998197-39-9
Molecular Formula : C₂₁H₁₈N₂O₂S
Molecular Weight : 362.44
Target : Cannabinoid Receptor
Solubility : 10 mM in DMSO



Biological Activity

ZCZ011 is a positive allosteric modulator of **CB1 receptor**, increases specific binding of CB1 receptor orthosteric agonist [3H]CP55,940 to mouse brain membranes with pEC₅₀ of 6.9.

ZCZ011 also produced a significant and concentration-dependent increase in the specific binding of the CB1 receptor orthosteric agonist [3H]WIN55212 to mouse brain membranes with pEC₅₀ of 6.3.

ZCZ011 significantly enhanced AEA-stimulated [35S]GTPγS binding at 100 nM.

ZCZ011 potentiated β-arrestin recruitment, and ERK phosphorylation assays.

ZCZ011 is brain penetrant, exhibits antinociceptive effects in neuropathic and inflammatory pain models with no associated cannabimimetic effects.

References

Ignatowska-Jankowska BM, et al. *Neuropsychopharmacology*. 2015 Dec;40(13):2948-59.

Mitjavila J, et al. *Pharmacol Res*. 2018 Mar;129:475-481.

Saleh N, et al. *Angew Chem Int Ed Engl*. 2018 Mar 1;57(10):2580-2585.

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

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