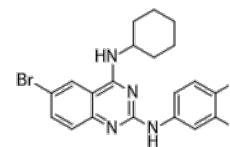


Product Name : AP-7-168
Cat. No. : PC-27918
CAS No. : 2816062-15-2
Molecular Formula : C₂₀H₁₉BrF₂N₄
Molecular Weight : 433.30
Target : Adrenergic Receptor
Solubility : 10 mM in DMSO



Biological Activity

AP-7-168 is a specific β -arrestin-biased negative allosteric modulator (**NAM**) of β 2-adrenergic receptor (**β 2AR**), mediates β 2AR dimerization with pEC₅₀ of 5.93 in HEK cells, is >1,000-fold effective at inhibiting β -arrestin2 recruitment versus cAMP production.

AP-7-168 shows direct binding to the monomeric β 2AR receptor with K_d of 30 μ M.

AP-7-168 promotes β 2AR dimerization in continuous membranes and in cells.

AP-7-168 (10 μ M) caused a slight reduction in the monomer-Gs binding affinity (K_D = 1.7 μ M) in BLI assays.

AP-7-168 biases TM6 conformational dynamics of β 2AR in both dimer and monomer.

AP-7-168-bound β AR dimers inhibits GRK5-mediated phosphorylation of β 2AR in both detergent and nanodiscs.

References

Shen J, et al. *Nature*. 2026 Aug 19. doi: 10.1038/s41586-026-10892-y.

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

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