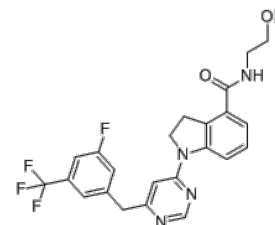


Product Name : PW0787
Cat. No. : PC-72127
CAS No. : 2624131-45-7
Molecular Formula : C₂₃H₂₀F₄N₄O₂
Molecular Weight : 460.433
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

PW0787 (PW 0787) is a potent, selective, brain-penetrant **GPR52** agonist with EC₅₀ of 135 nM in cAMP assays in HEK293 cells.

PW0787 displays no significant binding affinity (IC₅₀>10 μM) against other GPCRs, a broad-panel counter screening (NIMH-PDSP), as well as hERG potassium channel.

PW0787 exhibits a good concentration in the brain at 0.25 h with the value of 1807 ng/g and also exhibits an acceptable brain permeability with a brain/plasma ratio of 0.28.

PW0787 is an orally bioavailable and brain-penetrant GPR52 agonist with antipsychotic-like activity, which dose-dependently inhibits amphetamine-evoked hyperactivity in mice.

References

Pingyuan Wang, et al. *J Med Chem*. 2020 Nov 25;63(22):13951-13972.

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

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