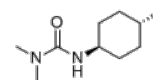


Product Name : (-)-IHCH7041
Cat. No. : PC-72176
CAS No. : 1599089-55-0
Molecular Formula : C₁₀H₂₀N₂O
Molecular Weight : 184.283
Target : Dopamine Receptor
Solubility : 10 mM in DMSO



Biological Activity

(-)-IHCH7041 is a potent, selective partial agonist at **DRD2/3** and **5-HT1AR**, with EC₅₀ of 1.38 nM in Gαi1–γ9 dissociation and 2.75 nM in β-arrestin2 recruitment assays, with negligible 5-HT_{2A}R binding (>100-fold selectivity).

(-)-IHCH7041 exhibits negligible affinities for a large number of tested GPCRs, ion channels and transporters (K_i>500 nM), good affinities for DRD2 and DRD3 (K_i=14.42 nM), and moderate binding to 5-HT_{1A} (K_i=60.62 nM).

(-)-IHCH7041 behaves as a partial agonist in both G-protein signaling and β-arrestin recruitment activities at DRD2, DRD3 and 5-HT_{1A}R.

(-)-IHCH7041 displayed potent antipsychotic activity and has antidepressant properties and reverses cognitive impairment in mice.

References

Zhangcheng Chen, et al. *Nat Neurosci.* 2022 Jan;25(1):39-49.

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

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