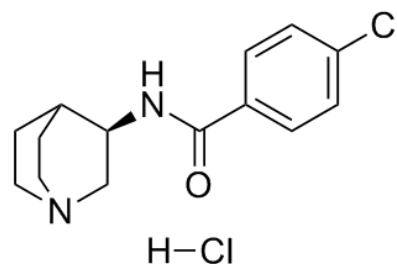


Product Name : PNU-282987
Cat. No. : PC-43108
CAS No. : 123464-89-1
Molecular Formula : C₁₄H₁₈Cl₂N₂O
Molecular Weight : 301.2115
Target : nAChR
Solubility : DMSO: ≥ 61 mg/mL



Biological Activity

PNU-282987 is a potent, selective **α7 nAChR** agonist with K_i of 26 nM, shows negligible block of α1β1γδ and α3β4 nAChRs (IC₅₀>60 μM).

PNU-282987 is inactive at all tested monoamine, muscarine, glutamate, and GABA receptors.

PNU-282987 evokes whole-cell currents from cultured rat hippocampal neurons, improves the inherent hippocampal gating deficit occurring in a subpopulation of anesthetized rats, and enhances amphetamine-induced hippocampal oscillation; enhances GABAergic synaptic activity in brain slices and restores auditory gating deficits in anesthetized rats.

References

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Su X, et al. *Am J Respir Cell Mol Biol.* 2007 Aug;37(2):186-92.

Hu M, et al. *Brain Res.* 2007 Jun 2;1151:227-35.

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

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