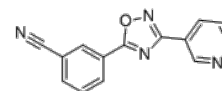


Product Name : NS9283
Cat. No. : PC-21601
CAS No. : 913830-15-6
Molecular Formula : C₁₄H₈N₄O
Molecular Weight : 248.25
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

NS9283 is a potent, positive allosteric modulator of $\alpha 4\beta 2$ nAChR, acts selectively at $3\alpha:2\beta$ stoichiometry of $\alpha 2^*$ and $\alpha 4^*$ nAChRs.

NS9283 selectively increases ACh potency at the $3\alpha:2\beta$ receptors while it does not modulate current conducted by the $2\alpha:3\beta$ receptors.

NS9283 was demonstrated to increase the potency of ACh-evoked currents in HEK293- $\alpha 4\beta 2$ cells by left-shifting the concentration-response curve ~60-fold.

NS9283 has favourable effects on sensory information processing, as shown by reversal of PCP-disrupted pre-pulse inhibition.

NS9283 improved performance in a rat model of episodic memory (social recognition), a rat model of sustained attention.

References

Timmermann DB, et al. Br J Pharmacol. 2012 Sep;167(1):164-82.

Grube M, et al. Br J Pharmacol. 2013 Apr;168(8):2000-10.

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

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