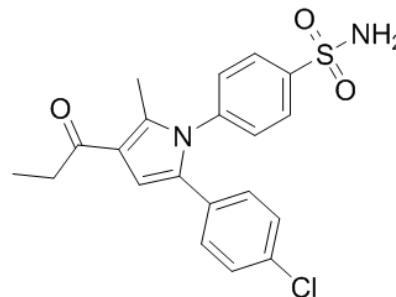


Product Name : A-867744
Cat. No. : PC-42900
CAS No. : 1000279-69-5
Molecular Formula : C₂₀H₁₉ClN₂O₃S
Molecular Weight : 402.8945
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

A-867744 is a potent, selective $\alpha 7$ nAChR positive allosteric modulator (PAM) with K_i of 23 nM, potentiates acetylcholine (ACh)-evoked currents with EC₅₀ of 1 μ M; A-867744 failed to potentiate responses mediated by 5-HT_{3A} or $\alpha 3\beta 4$ and $\alpha 4\beta 2$ nAChRs; increases choline-evoked $\alpha 7$ currents and recovery from inhibition/desensitization, and enhances spontaneous inhibitory postsynaptic current activity at 10 μ M in rat hippocampus; normalizes gating deficits in rodent model of sensory gating.

References

- Malysz J, et al. J Pharmacol Exp Ther. 2009 Jul;330(1):257-67.
Faghieh R, et al. J Med Chem. 2009 May 28;52(10):3377-84.
Hu M, et al. Br J Pharmacol. 2009 Dec;158(8):1857-64.

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

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