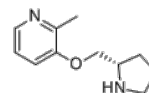


Product Name : ABT-089
Cat. No. : PC-61619
CAS No. : 161417-03-4
Molecular Formula : C₁₁H₁₆N₂O
Molecular Weight : 178.231
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

ABT-089 (Pozanicline) is a potent, selective **α4β2 nAChR** agonist with K_i of 16 nM; display selectivity over α7 nAChR (K_i>10 uM) and α1β1 nAChR.

ABT-089 displays a similar potency and efficacy to (-)-nicotine to facilitate ACh release (EC₅₀=3 uM), with less potent and less efficacious stimulate dopamine release (ABT-089, EC₅₀=1.1 uM; (-)-nicotine, EC₅₀=0.04 uM).

ABT-089 shows effects on cognitive performance in rats and monkeys.

References

Lin NH, et al. J Med Chem. 1997 Jan 31;40(3):385-90.

Sullivan JP, et al. J Pharmacol Exp Ther. 1997 Oct;283(1):235-46.

Decker MW, et al. J Pharmacol Exp Ther. 1997 Oct;283(1):247-58.

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

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