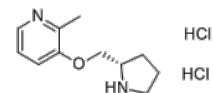


Product Name : ABT 089 dihydrochloride
Cat. No. : PC-61620
CAS No. : 161416-61-1
Molecular Formula : C₁₁H₁₆N₂O₂HCl
Molecular Weight : 265.18
Target : nAChR
Solubility : 10 mM in DMSO



Biological Activity

ABT 089 dihydrochloride (Pozanicline) is a potent and selective $\alpha 4\beta 2$ nAChR agonist with K_i of 16 nM; display selectivity over $\alpha 7$ nAChR ($K_i > 10 \mu\text{M}$) and $\alpha 1\beta 1$ nAChR.

ABT 089 displays a similar potency and efficacy to (-)-nicotine to facilitate ACh release ($EC_{50} = 3 \mu\text{M}$), with less potent and less efficacious stimulate dopamine release (ABT-089, $EC_{50} = 1.1 \mu\text{M}$; (-)-nicotine, $EC_{50} = 0.04 \mu\text{M}$).

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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