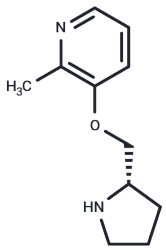
Data Sheet (Cat.No.T16563)

TargetMol

Pozanicline

Chemical Properties



CAS No. : 161417-03-4

Formula: C11H16N2O

Molecular Weight: 192.26

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pozanicline reverses nicotine withdrawal-induced cognitive deficits, may be an effective component of novel therapeutic strategies for nicotine addiction. Pozanicline selectively activate neuronal nicotinic acetylcholine receptor (nAChR) subtypes, is a novel cholinergic agent that is a partial agonist at α4β2 nAChRs (Ki=16 nM). It shows high selectivity for α6β2 and α4α5β2 nAChR subtypes, the binding affinity (Ki, rat) for Pozanicline to [3H] cytisine sites is 16.7 nM .
Targets(IC50)	AChR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2013 mL	26.0064 mL	52.0129 mL
5 mM	1.0403 mL	5.2013 mL	10.4026 mL
10 mM	0.5201 mL	2.6006 mL	5.2013 mL
50 mM	0.104 mL	0.5201 mL	1.0403 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sullivan JP, et al. ABT-089 [2-methyl-3-(2-(S)-pyrrolidinylmethoxy)pyridine]: I. A potent and selective cholinergic channel modulator with neuroprotective properties. J Pharmacol Exp Ther. 1997 Oct;283(1):235-46.
Yildirim E, et al. ABT-089, but not ABT-107, ameliorates nicotine withdrawal-induced cognitive deficits in C57BL6/J mice. Behav Pharmacol. 2015 Apr;26(3):241-8.

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