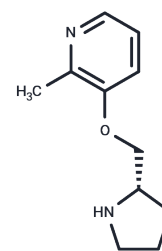


Pozanicline

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 161417-03-4 |
| Formula: | C ₁₁ H ₁₆ N ₂ O |
| 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 $\alpha 4\beta 2$ nAChRs ($K_i=16$ nM). It shows high selectivity for $\alpha 6\beta 2$ and $\alpha 4\alpha 5\beta 2$ nAChR subtypes, the binding affinity (K_i , 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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