
Product Data Sheet

Product Name: Pozanicline
 Cat. No.: GC36952

Chemical Properties

Cas. No. 161417-03-4

SMILES CC1=C(OC[C@H]2NCCC2)C=CC=N1

Formula $C_{11}H_{16}N_2O$ M.Wt 192.26

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Pozanicline (ABT-089) 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) and 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. Pozanicline reverses nicotine withdrawal-induced cognitive deficits, may be an effective component of novel therapeutic strategies for nicotine addiction[1]. K_i : 16 nM ($\alpha 4\beta 2^*$ nAChR)[1]

[1]. 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. [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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