Data Sheet (Cat.No.T10224)

TargetMol

ABT-418 hydrochloride

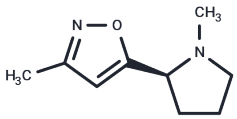
Chemical Properties

CAS No. : 147388-83-8

Formula: C9H15ClN2O

Molecular Weight: 202.68

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	ABT-418 hydrochloride is a selective agonist of nAChRs with cognitive enhancing and anxiolytic activities. It activates cholinergic channel and can be used for the research of Alzheimer's disease.
Targets(IC50)	Others,AChR
In vivo	Animal Model: Male SHRs (4-5 weeks old), attention deficit hyperactivity disorder (ADHD) model;Dosage: 0.6 mg/kg;Administration: i.p.; once daily; for two weeks [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9339 mL	24.6694 mL	49.3389 mL
5 mM	0.9868 mL	4.9339 mL	9.8678 mL
10 mM	0.4934 mL	2.4669 mL	4.9339 mL
50 mM	0.0987 mL	0.4934 mL	0.9868 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

Brioni JD, et al. Anxiolytic-like effects of the novel cholinergic channel activator ABT-418. J Pharmacol Exp Ther. 1994 Oct;271(1):353-61.

Guo T, et al. A comparative study of the effects of ABT-418 and methylphenidate on spatial memory in an animal model of ADHD. Neurosci Lett. 2012 Oct 18;528(1):11-5.

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