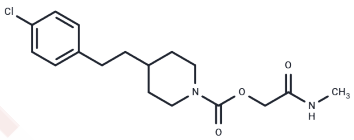
Data Sheet (Cat.No.T12826)

TargetMol

SA57

Chemical Properties



CAS No. : 1346169-63-8

Formula: C17H23ClN2O3

Molecular Weight: 338.83

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	SA57 is a potent, selective inhibitor of FAAH(IC50s of 3.2 nM and 1.9 nM for mouse and human FAAH).
Targets(IC50)	FAAH,MAGL
In vitro	SA57 exhibits clear time-dependent inhibition of FAAH and MAGL, suggesting a covalent mechanism of inactivation, presumably through carbamylation of the active site serine nucleophiles of these enzymes[1].
In vivo	In vivo SA57 (0.01-12.5 mg/kg; intraperitoneal injection; for 2 hours; C57Bl/6 mice) treatment shows distinct dose-responsive activity against brain serine hydrolases (FAAH, MAGL and ABHD6)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9513 mL	14.7567 mL	29.5133 mL
5 mM	0.5903 mL	2.9513 mL	5.9027 mL
10 mM	0.2951 mL	1.4757 mL	2.9513 mL
50 mM	0.059 mL	0.2951 mL	0.5903 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

Niphakis MJ, et al. O-hydroxyacetamide carbamates as a highly potent and selective class of endocannabinoid hydrolase inhibitors. ACS Chem Neurosci. 2012 May 16;3(5):418-26.
Owens RA, et al. Discriminative Stimulus Properties of the Endocannabinoid Catabolic Enzyme Inhibitor SA-57 in Mice. J Pharmacol Exp Ther. 2016 Aug;358(2):306-14.

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