Data Sheet (Cat.No.T12826)



SA57

Chemical Propert	ies
CAS No. :	1346169-63-8
Formula:	C17H23ClN2O3
Molecular Weight:	338.83
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

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
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.

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.

Inhibitor • Natural Compounds • Compound Libraries • Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481