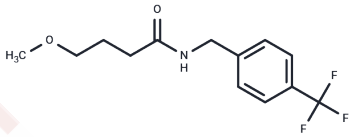
Data Sheet (Cat.No.T11393)

TargetMol

GET73

Chemical Properties



CAS No. : 202402-01-5

Formula: C13H16F3NO2

Molecular Weight: 275.27

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	GET73 (Gamma hydroxybutyric acid analogue) is an negative allosteric modulator of mGluR5. GET73 is a naturally occurring neurotransmitter. GET73 has anti-alcohol and anxiolytic properties.
Targets(IC50)	Others,GABA Receptor,GluR
In vitro	GET73 (1 μM, 10 μM; 1 hour) 1 hour before and during chronic ethanol exposure prevents ethanol-induced a reduction of cell viability, an alteration of cytoskeleton, an increase of reactive oxygen species production and a decrease in extracellular glutamate levels.
In vivo	GET73 exerts an anxiolytic effect in Sprague-Dawley rats exposed to the elevated plus maze (EPM) test.

Solubility Information

Solubility	DMSO: 97 mg/mL (352.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.99 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6328 mL	18.164 mL	36.328 mL
5 mM	0.7266 mL	3.6328 mL	7.2656 mL
10 mM	0.3633 mL	1.8164 mL	3.6328 mL
50 mM	0.0727 mL	0.3633 mL	0.7266 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

Tomasini MC, et al. GET73 Prevents Ethanol-Induced Neurotoxicity in Primary Cultures of Rat Hippocampal Neurons. Alcohol Alcohol. 2016 Mar;51(2):128-35.
Ferraro L, et al. GET73 modulates rat hippocampal glutamate transmission: evidence for a functional interaction with mGluR5. Pharmacol Rep. 2011;63(6):1359-71.
Loche A, et al. Anti-Alcohol and Anxiolytic Properties of a New Chemical Entity, GET73. Front Psychiatry. 2012 Feb 14;3:8.