

WAY-213613 hydrochloride

Chemical Properties

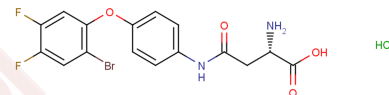
CAS No. : 2450268-84-3

Formula: C₁₆H₁₃BrF₂N₂O₄

Molecular Weight: 415.19

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	WAY-213613 hydrochloride is a potent, selective nonsubstrate reuptake inhibitor of GLT-1/EAAT2 with IC ₅₀ of 85 nM. WAY-213613 hydrochloride inhibits EAAT1 and EAAT3 with IC ₅₀ values of 5 and 3.8 microM, respectively. WAY-213613 hydrochloride shows no activity at ionotropic and metabotropic glutamate receptors. It is a potential tool for the elucidation of EAAT2 function and can be used for the research of central nervous system [1] [2].
Targets(IC50)	transporter

Solubility Information

Solubility	H ₂ O: < 0.1 mg/mL (insoluble) DMSO: 55 mg/mL (132.47 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: 2 mg/mL (4.82 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4085 mL	12.0427 mL	24.0854 mL
5 mM	0.4817 mL	2.4085 mL	4.8171 mL
10 mM	0.2409 mL	1.2043 mL	2.4085 mL
50 mM	0.0482 mL	0.2409 mL	0.4817 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

Dunlop J, et al. Characterization of novel aryl-ether, biaryl, and fluorene aspartic acid and diamino propionic acid analogs as potent inhibitors of the high-affinity glutamate transporter EAATMol Pharmacol. 2005 Oct;68(4):974-8Epub 2005 Jul 13.

Simmons DA, et al. A small molecule p75NTR ligand, LM11A-31, reverses cholinergic neurite dystrophy in Alzheimer's disease mouse models with mid- to late-stage disease progression. PLoS One. 2014 Aug 25;9(8): e102136.

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