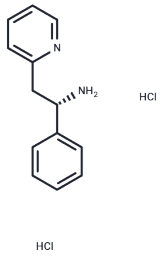
Data Sheet (Cat.No.T60471)

TargetMol

Lanicemine dihydrochloride

Chemical Properties



CAS No. :	153322-06-6
Formula:	C13H16Cl2N2
Molecular Weight:	271.19
Storage:	Keep away from moisture 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	Lanicemine dihydrochloride (AZD-6765 dihydrochloride) is a low-capture NMDA channel blocker with antidepressant activity and can be used to study neurological diseases.
Targets(IC50)	NMDAR,iGluR
In vivo	The levels of the GluA1 subunit of AMPA receptors, synapsin I, BDNF, and CREB after treatment of mice with either hyperforin or Lanicemine dihydrochloride or a combination of both drugs. This treatment strategy did not significantly alter p-CREB/CREB levels but elevated BDNF in the frontal cortex (1 h after hyperforin and 1.5 h after Lanicemine dihydrochloride administration). A single dose of either hyperforin or Lanicemine dihydrochloride did not alter the expression of synapsin I and GluA1. In contrast, the combined administration of hyperforin and Lanicemine dihydrochloride increased the levels of both proteins. After 72 h, a combination of hyperforin and Lanicemine dihydrochloride did not alter p-CREB/CREB levels; however, Lanicemine dihydrochloride and hyperforin + Lanicemine dihydrochloride significantly increased the levels of BDNF in the test animals compared to controls. The levels of other proteins (synapsin I, GluA1) remained unchanged 72 h after treatment. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6875 mL	18.4373 mL	36.8745 mL
5 mM	0.7375 mL	3.6875 mL	7.3749 mL
10 mM	0.3687 mL	1.8437 mL	3.6875 mL
50 mM	0.0737 mL	0.3687 mL	0.7375 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

Pochwat B, et al. Hyperforin Potentiates Antidepressant-Like Activity of Lanicemine in Mice. Front Mol Neurosci. 2018 Dec 12;11:456.