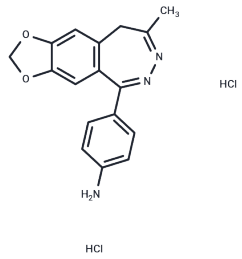
Data Sheet (Cat.No.T11522)

TargetMol

GYKI 52466 dihydrochloride

Chemical Properties



CAS No. :	2319722-40-0
Formula:	C17H17Cl2N3O2
Molecular Weight:	366.24
Storage:	Keep away from direct sunlight,Store at low temperature 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	GYKI 52466 dihydrochloride (GYKI 52466 2HCl) is a highly potent, orally active and selective AMPA/Kainate receptor antagonist with good blood-brain permeability and anticonvulsant activity that can be used to study neurological diseases such as Parkinson's and epilepsy.
Targets(IC50)	GluR,iGluR
In vitro	In cultured rat hippocampal neurons, GYKI 52466 dihydrochloride (0.3-100 μM) was able to inhibit inward currents activated by AMPA and Kainate receptors. [1]
In vivo	GYKI 52466 dihydrochloride (1.76-13.2 mg/kg; single administration), given by intraperitoneal injection to DBA/2 mice, was able to provide effective anticonvulsant protection against sound-induced seizures. [2]

Solubility Information

Solubility	DMSO: 1 mg/mL (2.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7304 mL	13.6522 mL	27.3045 mL
5 mM	0.5461 mL	2.7304 mL	5.4609 mL
10 mM	0.273 mL	1.3652 mL	2.7304 mL
50 mM	0.0546 mL	0.273 mL	0.5461 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

Donevan SD, et al. GYKI 52466, a 2,3-benzodiazepine, is a highly selective, noncompetitive antagonist of AMPA/kainate receptor responses. Neuron. 1993 Jan;10(1):51-9.
Chapman AG, et al. The anticonvulsant effect of the non-NMDA antagonists, NBQX and GYKI 52466, in mice. Epilepsy Res. 1991 Jul;9(2):92-6.