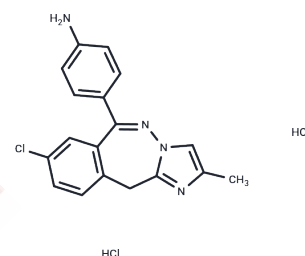


GYKI-47261 dihydrochloride

Chemical Properties

CAS No. :	1217049-32-5
Formula:	C ₁₈ H ₁₇ Cl ₃ N ₄
Molecular Weight:	395.71
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	GYKI-47261 dihydrochloride is an orally active and selective AMPA receptor antagonist, also a CYP2E1 inducer with broad anticonvulsant and neuroprotective activity, used in neurological and cardiovascular research.
Targets(IC50)	GluR,Cytochromes P450,iGluR
In vitro	GYKI-47261 dihydrochloride inhibits AMPA or rhodospine-induced whole cell currents in isolated neurons. [1]
In vivo	GYKI-47261 dihydrochloride (200 mg/kg orally) is highly active in transient focal ischemia models. Antiischemic effect of GYKI-47261 dihydrochloride (6 mg/kg iv) in rats with transient focal cerebral ischemia. GYKI-47261 dihydrochloride effectively alleviates tremor induced by oxotremorine, a cholinergic agonist, in the treatment of Parkinson's disease. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5271 mL	12.6355 mL	25.271 mL
5 mM	0.5054 mL	2.5271 mL	5.0542 mL
10 mM	0.2527 mL	1.2636 mL	2.5271 mL
50 mM	0.0505 mL	0.2527 mL	0.5054 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

Abrahám G, et al. New non competitive AMPA antagonists. *Bioorg Med Chem.* 2000;8(8):2127-2143.

Tamási V, et al. GYKI-47261, a new AMPA [2-amino-3-(3-hydroxymethylisoxazole-4-yl)propionic acid] antagonist, is a CYP2E1 inducer. *Drug Metab Dispos.* 2003;31(11):1310-1314.

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