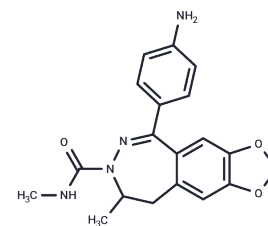


GYKI 53655 hydrochloride

Chemical Properties

CAS No. :	143692-48-2
Formula:	C ₁₉ H ₂₁ ClN ₄ O ₃
Molecular Weight:	388.85
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	GYKI 53655 hydrochloride (LY300168 hydrochloride) is an antagonist of AMPA and is used in the study of neurological disorders.
Targets(IC50)	GluR, iGluR
In vitro	GYKI 53655 hydrochloride inhibited AMPA (10 μM)-mediated responses in recombinant human GluR1 receptors expressed in HEK293 cells and recombinant human GluR4 receptors expressed in HEK293 cells with approximate IC50 values of 6 μM and 5 μM, respectively.[1].
In vivo	GYKI 53655 hydrochloride (2-8 mg/kg) can dose-dependently inhibit or completely abolish AMPA responses in vivo[3].

Solubility Information

Solubility	DMSO: 120 mg/mL (308.6 mM), Sonication is recommended. H ₂ O: 2 mg/mL (5.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5717 mL	12.8584 mL	25.7169 mL
5 mM	0.5143 mL	2.5717 mL	5.1434 mL
10 mM	0.2572 mL	1.2858 mL	2.5717 mL
50 mM	0.0514 mL	0.2572 mL	0.5143 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

- Bleakman D, et al. Activity of 2,3-benzodiazepines at native rat and recombinant human glutamate receptors in vitro: stereospecificity and selectivity profiles. *Neuropharmacology*. 1996;35(12):1689-702.
- Chizh BA, et al. A comparison of intravenous NBQX and GYKI 53655 as AMPA antagonists in the rat spinal cord. *Br J Pharmacol*. 1994 Jul;112(3):843-6.
- Szabados T, et al. Comparison of anticonvulsive and acute neuroprotective activity of three 2,3-benzodiazepine compounds, GYKI 52466, GYKI 53405, and GYKI 53655. *Brain Res Bull*. 2001 Jun;55(3):387-91.

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