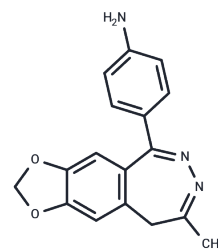


GYKI-52466

## Chemical Properties

CAS No. : 102771-26-6  
 Formula: C17H15N3O2  
 Molecular Weight: 293.32  
 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	GYKI-52466 is a selective non-competitive AMPA receptor antagonist (IC50 values are 10-20, ~ 450 and >50 $\mu$ M for AMPA-, kainate- and NMDA-induced responses, respectively) used as a Skeletal muscle relaxant, orally active anticonvulsant, neuroprotective and anxiolytic in vivo.
Targets(IC50)	Others,iGluR

## Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4092 mL	17.0462 mL	34.0925 mL
5 mM	0.6818 mL	3.4092 mL	6.8185 mL
10 mM	0.3409 mL	1.7046 mL	3.4092 mL
50 mM	0.0682 mL	0.3409 mL	0.6818 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

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Wu A, Wang C, Niu L. Mechanism of inhibition of the GluA1 AMPA receptor channel opening by the 2,3-benzodiazepine compound GYKI 52466 and a N-methyl-carbamoyl derivative. *Biochemistry.* 2014 May 13;53(18):3033-41. doi: 10.1021/bi5002079. Epub 2014 May 1. PubMed PMID: 24738995; PubMed Central PMCID: PMC4025570.

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