L-701252

Cat. No.: HY-101101

CAS No.: 151057-13-5

Molecular Formula: $C_{13}H_{10}ClNO_3$

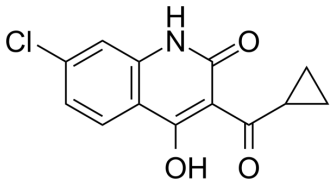
Molecular Weight: 263.68

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (37.92 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7925 mL	18.9624 mL	37.9248 mL
	5 mM	0.7585 mL	3.7925 mL	7.5850 mL
	10 mM	0.3792 mL	1.8962 mL	3.7925 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (3.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L-701252 is a potent antagonist of glycine site NMDA receptor with an IC_{50} of 420 nM. L-701252 provides a small degree of neuroprotection in global cerebral ischaemia[1].

IC_{50} & Target

NMDA receptor[1]

In Vivo

L-701252 (50 mg/kg; i.p.) provides a small non-significant protection[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	3-Months Male Mongolian gerbils (60 g)[1]
Dosage:	50 mg/kg

Administration:	i.p.
Result:	Provided a small non-significant protection.

REFERENCES

[1]. Stone TW. Development and therapeutic potential of kynurenic acid and kynurenine derivatives for neuroprotection. Trends Pharmacol Sci. 2000;21(4):149-154.

[2]. Widdowson PS, et al. Failure of glycine site NMDA receptor antagonists to protect against L-2-chloropropionic acid-induced neurotoxicity highlights the uniqueness of cerebellar NMDA receptors. Brain Res. 1996;738(2):236-242.

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