Mibampator

Cat. No.: HY-10934

CAS No.: 375345-95-2

Molecular Formula: $C_{21}H_{30}N_2O_4S_2$

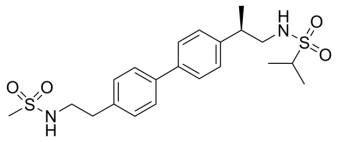
Molecular Weight: 438.6

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 25 mg/mL (57.00 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2800 mL	11.3999 mL	22.7998 mL
	5 mM	0.4560 mL	2.2800 mL	4.5600 mL
	10 mM	0.2280 mL	1.1400 mL	2.2800 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mibampator (LY451395) is a potent and highly selective potentiator of the AMPA receptors.

IC_{50} & Target

AMPA receptor[1].

In Vivo

Incubation of Mibampator (LY451395) with Actinoplanes missouriensis NRRL B3342 generated several metabolites that were previously detected in the in vivo metabolism studies of the preclinical species [1]. LY404187 and Mibampator (LY451395)

reverses the central effects of an acutely intoxicating dose of ethanol in the rat. Mibampator (LY451395) significantly and dose-dependently reversed ethanol-induced deficits in both motor coordination and disruptions in an operant task where animals were trained to press a lever for food reward [2].

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

REFERENCES

[1]. Zmijewski M, et al. Application of biocatalysis to drug metabolism: preparation of mammalian metabolites of a biaryl-bis-sulfonamide AMPA (alpha-amino-3-hydroxy-5-methylisoxazole-4-propionic acid) receptor potentiator using Actinoplanes missouriensis. Drug Metab Dispos. 2006 Jun;34(6):925-31.

[2]. Jones N, et al. AMPA receptor potentiation can prevent ethanol-induced intoxication. Neuropsychopharmacology. 2008 Jun;33(7):1713-23.

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