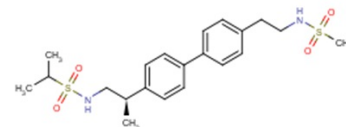


## Mibampator

## Chemical Properties

CAS No.:	375345-95-2
Formula:	C <sub>21</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
Molecular Weight:	438.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Mibampator is an effective and highly selective AMPA receptor potentiator.
Targets(IC <sub>50</sub> )	AMPA receptor: None
In vivo	LY404187 and Mibampator reverses the central effects of an acutely intoxicating dose of ethanol in the rat. Incubation of Mibampator with <i>Actinoplanes missouriensis</i> NRRL B3342 generated several metabolites that were previously detected in the in vivo metabolism studies of the preclinical species [1]. Mibampator obviously 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].

## Solubility Information

Solubility	DMSO: 25 mg/mL (57.00 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.28 mL	11.4 mL	22.8 mL
5 mM	0.456 mL	2.28 mL	4.56 mL
10 mM	0.228 mL	1.14 mL	2.28 mL
50 mM	0.046 mL	0.228 mL	0.456 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

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

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