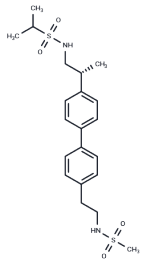
Data Sheet (Cat.No.T15820)

TargetMol

Mibampator

Chemical Properties



CAS No. : 375345-95-2

Formula: C21H30N2O4S2

Molecular Weight: 438.6

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	Mibampator (LY451395) is an effective and selective AMPA receptor potentiator.
Targets(IC50)	iGluR
In vivo	Mibampator reverses the central effects of an acutely intoxicating dose of ethanol in rats [1]. Mibampator dose-dependently reverses ethanol-induced deficits in both motor coordination and disruptions in an operant task in the food reward test[2].

Solubility Information

Solubility	DMSO: 20 mg/mL (45.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.56 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.280 mL	11.3999 mL	22.7998 mL
5 mM	0.456 mL	2.280 mL	4.560 mL
10 mM	0.228 mL	1.140 mL	2.280 mL
50 mM	0.0456 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. 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

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481