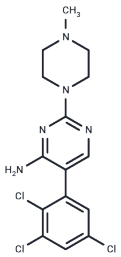
Data Sheet (Cat.No.T16887)

TargetMol

Sipatrigine

Chemical Properties



CAS No. : 130800-90-7

Formula: C15H16Cl3N5

Molecular Weight: 372.68

Storage: Keep away from moisture
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	Sipatrigine (619C89) is an antiepileptic compound with neuroprotective activity through glutamate release, TREK ion channels, TRESK channels, sodium channels, and calcium channel inhibitors in the CNS, and can be used to study TRESK channels.
Targets(IC50)	Calcium Channel,Potassium Channel,Sodium Channel

Solubility Information

Solubility	DMSO: 30 mg/mL (80.5 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 (5.37 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	2.6833 mL	13.4163 mL	26.8327 mL
5 mM	0.5367 mL	2.6833 mL	5.3665 mL
10 mM	0.2683 mL	1.3416 mL	2.6833 mL
50 mM	0.0537 mL	0.2683 mL	0.5367 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

Leach MJ, et al. BW619C89, a glutamate release inhibitor, protects against focal cerebral ischemic damage. Stroke. 1993 Jul;24(7):1063-7.

Atticus H. Hainsworth, et al. Sipatrigine (BW 619C89) is a Neuroprotective Agent and a Sodium Channel and Calcium Channel Inhibitor. CNS Drug Reviews. Vol. 6, No. 2, pp. 111-134.

Walsh Y, et al. Block of TREK and TRESK K2P channels by lamotrigine and two derivatives sipatrigine and CEN-092. Biochem Biophys Rep. 2021 May 19;26:101021.

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