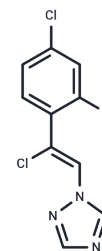


Loreclezole

Chemical Properties

CAS No. :	117857-45-1
Formula:	C10H6Cl3N3
Molecular Weight:	274.53
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	Loreclezole is a selective GABAA receptor modulator and acts as a positive allosteric modulator of β 2 or β 3-subunit-containing receptors.
Targets(IC50)	GABA Receptor
In vitro	Loreclezole, at concentrations above 6 microM, enhanced the degree and rate of apparent desensitization of the whole-cell current in a concentration-dependent manner [1]. The action of loreclezole depends on the type of beta subunit present in the receptor complex; receptors containing beta 2 or beta 3 subunits have > 300-fold higher affinity for loreclezole than receptors containing a beta 1 subunit [2].

Solubility Information

Solubility	DMSO: 90 mg/mL (327.83 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: 3.3 mg/mL (12.02 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6426 mL	18.2129 mL	36.4259 mL
5 mM	0.7285 mL	3.6426 mL	7.2852 mL
10 mM	0.3643 mL	1.8213 mL	3.6426 mL
50 mM	0.0729 mL	0.3643 mL	0.7285 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

Donnelly JL, et al. Loreclezole enhances apparent desensitization of recombinant GABAA receptor currents. *Neuropharmacology*. 1996;35(9-10):1233-41.

Wingrove PB, et al. The modulatory action of loreclezole at the gamma-aminobutyric acid type A receptor is determined by a single amino acid in the beta 2 and beta 3 subunit. *Proc Natl Acad Sci U S A*. 1994 May 10;91(10):4569-73.

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