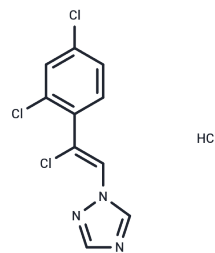


Loreclezole hydrochloride

Chemical Properties

CAS No. :	2227372-56-5
Formula:	C ₁₀ H ₇ Cl ₄ N ₃
Molecular Weight:	310.99
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 hydrochloride, an antiepileptic compound, functions as a selective modulator of GABA A receptors, specifically acting as a positive allosteric modulator on receptors containing β 2 or β 3 subunits.
Targets(IC50)	Others,GABA Receptor
In vivo	Administering loreclezole (10, 25, 50, or 75 mg/kg, intraperitoneally, 60 minutes prior to assessing seizure threshold) to adult male Lister Hooded rats elicited a dose-dependent increase in seizure threshold, determined by the required dose of pentylenetetrazol to induce convulsion 60 minutes post-administration. Additionally, loreclezole demonstrated minimal impact on muscle tone loss, gauged by the "pull-up" test[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2155 mL	16.0777 mL	32.1554 mL
5 mM	0.6431 mL	3.2155 mL	6.4311 mL
10 mM	0.3216 mL	1.6078 mL	3.2155 mL
50 mM	0.0643 mL	0.3216 mL	0.6431 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

- 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.
- Sanna E, et al. Direct activation of GABAA receptors by loreclezole, an anticonvulsant drug with selectivity for the beta-subunit. *Neuropharmacology.* 1996;35(12):1753-60.
- Green AR, et al. A behavioural and neurochemical study in rats of the pharmacology of loreclezole, a novel allosteric modulator of the GABAA receptor. *Neuropharmacology.* 1996;35(9-10):1243-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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