

Certificate of Analysis

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Product Name: Loreclezole hydrochloride

Catalog No.: 1295

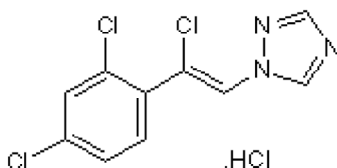
Batch No.: 2

CAS Number: 2227372-56-5

IUPAC Name: (Z)-1-[2-Chloro-2-(2,4-dichlorophenyl)ethenyl]-1H-1,2,4-triazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₆Cl₃N₃.HCl
Batch Molecular Weight: 311
Physical Appearance: White solid
Solubility: DMSO to 5 mM with gentle warming
 ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.62	2.27	13.5
Found	38.71	2.16	13.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Loreclezole hydrochloride is a subtype-selective GABA_A receptor modulator. Acts as a positive allosteric modulator of $\beta 2$ or $\beta 3$ -subunit containing receptors. Also acts as a negative modulator at a novel regulatory site, enhancing GABA_A receptor sensitization. Inhibits homomeric $\rho 1$ GABA_C receptors.

Physical and Chemical Properties:

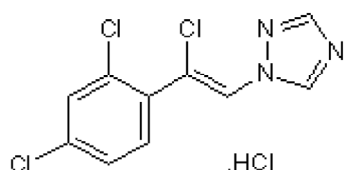
Batch Molecular Formula: C₁₀H₆Cl₃N₃.HCl

Batch Molecular Weight: 311

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 5 mM with gentle warming

ethanol to 5 mM with gentle warming

This compound is hygroscopic and may absorb atmospheric moisture during prolonged storage, causing the solid to become sticky and/or collapse into a gel or glass-like form. Although purity is unaffected, it may be difficult to extract the full quantity from the vial. In such a situation, we recommend that solutions are made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Smith *et al* (2004) Compounds exhibiting selective efficacy for different β subunits of human recombinant γ -aminobutyric acid_A receptors. *J.Pharmacol.Exp.Ther.* **311** 601. PMID: 15210837.

Fisher *et al* (2000) Loreclezole inhibition of recombinant $\alpha 1\beta 1\gamma 2L$ GABA_A receptor single channel currents. *Neuropharmacology* **39** 235. PMID: 10670419.

Thomet *et al* (2000) Loreclezole as a simple functional marker for homomeric ρ type GABA_C receptors. *Eur.J.Pharmacol.* **408** R1. PMID: 11080529.

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