

Product Name: LY 2365109 hydrochloride

Catalog No.: 3397

Batch No.: 3

CAS Number: 1779796-27-8

IUPAC Name: *N*-[2-[4-(1,3-Benzodioxol-5-yl)-2-(1,1-dimethylethyl)phenoxy]ethyl]-*N*-methylglycine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₇NO₅.HCl.H₂O

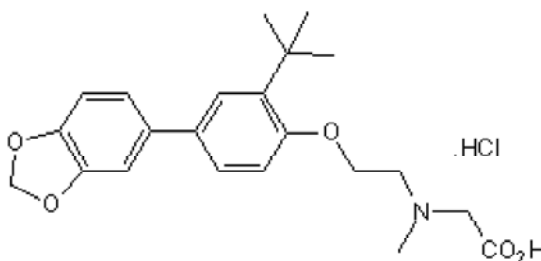
Batch Molecular Weight: 439.93

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Chloroform:Methanol [4:1])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.06	6.87	3.18
Found	60.17	6.55	3.07

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Description:

Potent and selective glycine transporter 1 (GlyT1) inhibitor (IC₅₀ values are 15.8 and > 30 000 nM at GlyT1 and GlyT2 respectively). Induces a dose-dependent elevation in CSF levels of glycine, and enhances acetylcholine and dopamine release in the striatum and prefrontal cortex respectively. Produces profound locomotor and respiratory impairments at higher doses.

Physical and Chemical Properties:

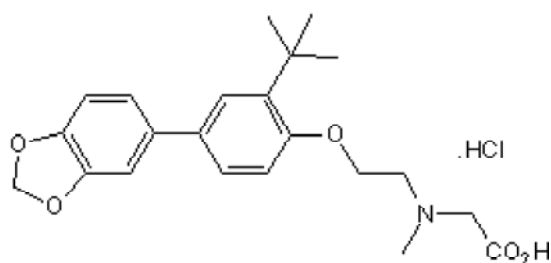
Batch Molecular Formula: C₂₂H₂₇NO₅.HCl.H₂O

Batch Molecular Weight: 439.93

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

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. Our standard recommendations are:

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:

Perry *et al* (2008) Neurochemical and behavioral profiling of the selective GlyT1 inhibitors ALX5407 and LY2365109 indicate a preferential action in caudal vs cortical brain areas. *Neuropharmacology* **55** 743. PMID: 18602930.

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