

# Certificate of Analysis

**Product Name:** LY 272015 hydrochloride

**Catalog No.:** 3077

**Batch No.:** 1

CAS Number: 172895-15-7

IUPAC Name: 1-[(3,4-Dimethoxyphenyl)methyl]-2,3,4,9-tetrahydro-6-methyl-1*H*-pyrido[3,4-*b*]indole hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>·HCl

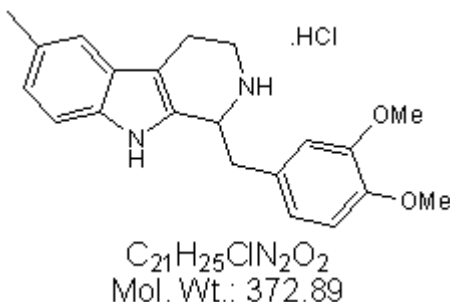
**Batch Molecular Weight:** 372.89

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM  
ethanol to 10 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**Melting Point:** Between 248 - 250°C(dec)

**HPLC:** Shows >99.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.64	6.76	7.51
Found	67.97	6.49	7.59

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**Description:**

High affinity 5-HT<sub>2B</sub> receptor antagonist that displays selectivity over 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors (K<sub>i</sub> values are 0.75, 21.63 and 28.7 nM for 5-HT<sub>2B</sub>, 5-HT<sub>2C</sub> and 5-HT<sub>2A</sub> receptors respectively). Orally active.

**Physical and Chemical Properties:**

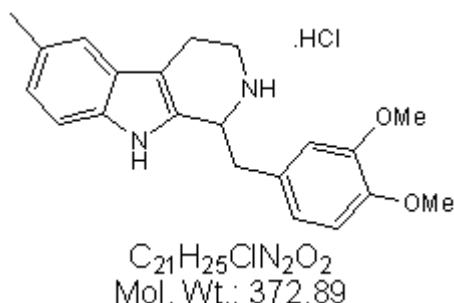
Batch Molecular Formula: C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 372.89

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 10 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:**

**Cohen et al** (1996) LY272015, a potent, selective and orally active 5-HT<sub>2B</sub> receptor antagonist. *J. Serotonin Res.* **3** 131.

**Sevoz-Couche et al** (2000) *In vivo* modulation of vagal-identified dorsal medullary neurones by activation of different 5-Hydroxytryptamine<sub>2</sub> receptors in rat. *Br.J.Pharmacol.* **131** 1445. PMID: 11090119.

**Niebert et al** (2011) Expression and function of serotonin 2A and 2B receptors in the mammalian respiratory network. *PLoS One* **6** e21395. PMID: 21789169.

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