

## Certificate of Analysis

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**Product Name:** LY 266097 hydrochloride

**Catalog No.:** 4081

**Batch No.:** 1

CAS Number: 172895-39-5

IUPAC Name: 1-[(2-Chloro-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>23</sub>ClN<sub>2</sub>O<sub>2</sub>.HCl

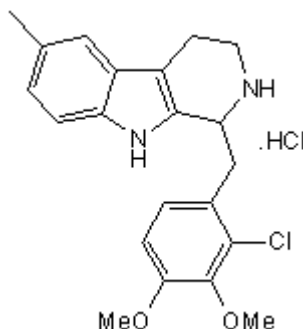
**Batch Molecular Weight:** 407.33

**Physical Appearance:** Off-white solid

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

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.92	5.94	6.88
Found	61.94	5.91	6.76

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**Description:**

Selective 5-HT<sub>2B</sub> receptor antagonist (pK<sub>i</sub> = 9.3). More than 100-fold selective over 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub>. Attenuates amphetamine-induced locomotion in the rat.

**Physical and Chemical Properties:**

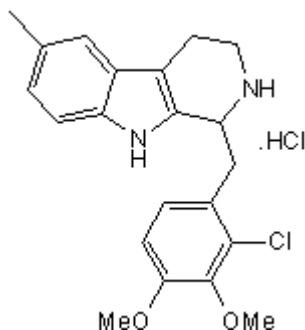
Batch Molecular Formula: C<sub>21</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 407.33

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 100 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:**

**Audia et al** (1996) Potent, selective tetrahydro-β-carboline antagonists of the serotonin 2B (5-HT<sub>2B</sub>) contractile receptor in the rat stomach fundus. *J.Med.Chem.* **39** 2773. PMID: 8709108.

**Auclair et al** (2010) The central serotonin<sub>2B</sub> receptor: a new pharmacological target to modulate the mesoaccumbens dopaminergic pathway activity. *J.Neurochem.* **114** 1323. PMID: 20534001.

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