

**Product Name:** LE 300

**Catalog No.:** 1674

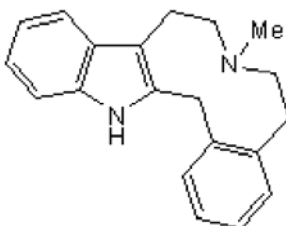
**Batch No.:** 4

CAS Number: 274694-98-3

IUPAC Name: 6,7,8,9,14,15-Hexahydro-7-methyl-5*H*-indolo[3,2-*f*][3]benzazecine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>22</sub>N<sub>2</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O  
**Batch Molecular Weight:** 303.92  
**Physical Appearance:** Beige solid  
**Solubility:** 1eq. HCl to 50 mM  
DMSO to 100 mM  
ethanol to 10 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.32 (Chloroform:Methanol [9:1])  
**HPLC:** Shows 98.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.04	7.79	9.22
Found	79.19	7.8	9.26

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**Description:**

LE 300 is a potent and selective dopamine D<sub>1</sub> receptor antagonist (K<sub>i</sub> values are 0.08 - 1.9 nM and 6 - 45 nM for D<sub>1</sub> and D<sub>2</sub> receptors respectively). Also displays moderate affinity for the 5-HT<sub>2A</sub> receptor (K<sub>i</sub> = 20 nM). Active in vivo.

**Physical and Chemical Properties:**

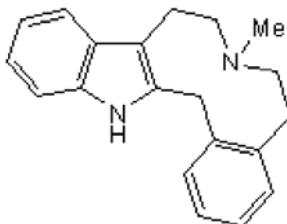
Batch Molecular Formula: C<sub>20</sub>H<sub>22</sub>N<sub>2</sub>·¾H<sub>2</sub>O

Batch Molecular Weight: 303.92

Physical Appearance: Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

1eq. HCl to 50 mM  
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:**

**EI-Subbagh et al (2002)** DA/serotonin receptor ligands: Part IV [1]: Synthesis and pharmacology of novel 3-benzazecines and 3-benzazonines as potential 5-HT<sub>2A</sub> and DA receptor ligands. Arch.Pharm. (Weinheim). **9** 443. PMID: 12447918.

**Kassack et al (2002)** Pharmacological characterization of the benz[d]indolo[2,3-g]azecine LE300, a novel type of a nanomolar DA receptor antagonist. Naunyn Schmiedebergs Arch.Pharmacol. **366** 543. PMID: 12444495.

**Witt et al (2000)** 7-Methyl-6,7,8,9,14,15-hexahydro-5H-benz[d]indolo[2,3-g]azecine: a new heterocyclic system and a new lead compound for DA receptor antagonists. J.Med.Chem. **43** 2079. PMID: 10821720.

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