

Product Name: LE 300

Catalog No.: 1674

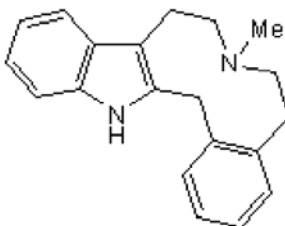
Batch No.: 4

CAS Number: 274694-98-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₂·³/₄H₂O
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 RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
¹H 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

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

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Description:

Potent and selective dopamine D₁ receptor antagonist (K_i values are 0.08 - 1.9 nM and 6 - 45 nM for D₁ and D₂ receptors respectively). Also displays moderate affinity for the 5-HT_{2A} receptor (K_i = 20 nM). Active in vivo.

Physical and Chemical Properties:

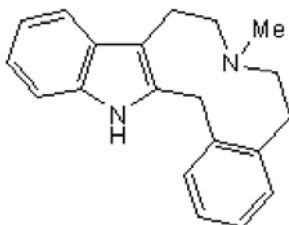
Batch Molecular Formula: C₂₀H₂₂N₂·¾H₂O

Batch Molecular Weight: 303.92

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

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) Dopamine/serotonin receptor ligands: Part IV [1]: Synthesis and pharmacology of novel 3-benzazecines and 3-benzazonines as potential 5-HT_{2A} and dopamine 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 dopamine 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 dopamine receptor antagonists. J.Med.Chem. **43** 2079. PMID: 10821720.

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