

Certificate of Analysis

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Product Name: LY 215840

Catalog No.: 1523

Batch No.: 1

CAS Number: 137328-52-0

IUPAC Name: [8β(1*S*,2*R*)]-*N*-(2-Hydroxycyclopentyl)-6-methyl-1-(1-methylethyl)-ergoline-8-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₃N₃O₂·¼H₂O

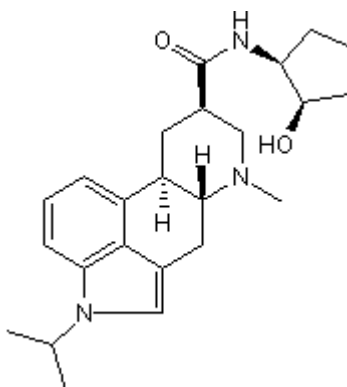
Batch Molecular Weight: 400.04

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

	Carbon	Hydrogen	Nitrogen
Theoretical	72.06	8.44	10.5
Found	72.02	8.34	10.44

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

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Description:

5-HT₂/5-HT₇ receptor antagonist. Reduces stimulatory effect of serotonin on aldosterone secretion; also reduces 5-HT-induced cAMP formation (pK_B = 8.26).

Physical and Chemical Properties:

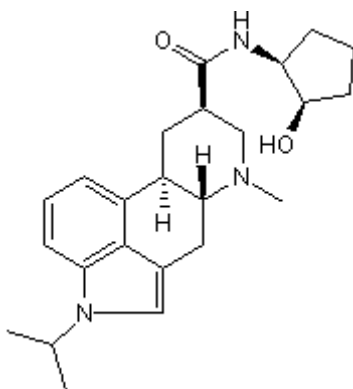
Batch Molecular Formula: C₂₄H₃₃N₃O₂·¼H₂O

Batch Molecular Weight: 400.04

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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:

Cushing *et al* (1996) LY215840, a high-affinity 5-HT₇ receptor ligand, blocks serotonin-induced relaxation in canine coronary artery. *J.Pharmacol.Exp.Ther.* **277** 1560. PMID: 8667223.

Lenglet *et al* (2002) Activation of 5-HT₇ receptor in rat glomerulosa cells is associated with an increase in adenylyl cyclase activity and calcium influx through T-type calcium channels. *Endocrinology* **143** 1748. PMID: 11956157.

Louiset *et al* (2006) Expression of serotonin₇ receptor and coupling of ectopic receptors to protein kinase A and ionic currents in adrenocorticotropin-independent macronodular adrenal hyperplasia causing Cushing's syndrome. *J.Clin.Endocrinol.Metab.* **91** 4578. PMID: 16954157.

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