

Certificate of Analysis

Product Name: Cabergoline

Catalog No.: 2664

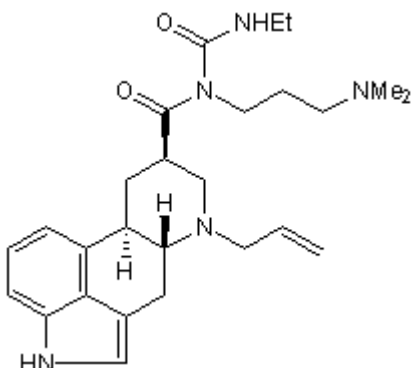
Batch No.: 2

CAS Number: 81409-90-7

IUPAC Name: *N*-[3-(Dimethylamino)propyl]-*N*-[(ethylamino)carbonyl]-6-(2-propenyl)ergoline-8-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₇N₅O₂
Batch Molecular Weight: 451.6
Physical Appearance: White solid
Solubility: 1eq. HCl to 10 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.15	8.26	15.51
Found	69.16	8.26	15.76

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

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Description:

Selective D₂-like dopamine receptor agonist (K_i values are 0.7, 1.5, 9.0 and 165 nM for D₂, D₃, D₄ and D₅ receptors respectively) that also displays high affinity for several serotonin receptor subtypes (K_i = 1.2 - 20.0 nM for 5-HT_{1A}, 5-HT_{1D}, 5-HT_{2A} and 5-HT_{2B}). Inhibits secretion of prolactin and growth hormone and reverses levodopa-induced dyskinesias in Parkinsonian monkeys.

Physical and Chemical Properties:

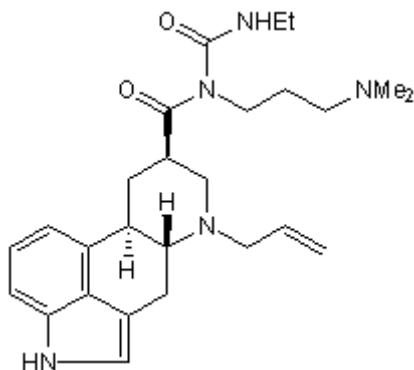
Batch Molecular Formula: C₂₆H₃₇N₅O₂

Batch Molecular Weight: 451.6

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Eguchi *et al* (1995) Effect of cabergoline, a dopamine agonist, on estrogen-induced rat pituitary tumors:in vitro culture studies. *Endocr.J.* **42** 413. PMID: 7670571.

Hadj Tahar *et al* (2000) Sustained cabergoline treatment reverses levodopa-induced dyskinesias in parkinsonian monkeys. *Cin.Neuropharmacol.* **23** 195.

Kvernmo *et al* (2006) A review of the receptor-binding and pharmacokinetic properties of dopamine agonists. *Clin.Ther.* **28** 1065. PMID: 16982285.

Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 10 mM
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.

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