

Certificate of Analysis

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Product Name: (-)-Cytisine

Catalog No.: 1390

Batch No.: 2

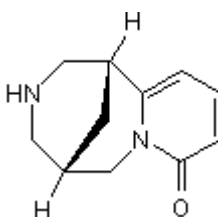
CAS Number: 485-35-8

EC Number: 207-616-0

IUPAC Name: (1*R*,5*S*)-1,2,3,4,5,6-hexahydro-1,5-methano-8*H*-pyrido[1,2-*a*][1,5]diazocin-8-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄N₂O
Batch Molecular Weight: 190.24
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -119 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.45	7.42	14.73
Found	69.45	7.49	14.81

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

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Description:

A potent, selective agonist at neuronal nicotinic receptors. Acts as a partial agonist at β 2-containing nicotinic receptors.

Physical and Chemical Properties:

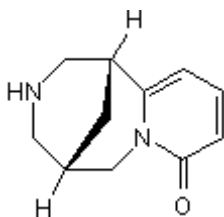
Batch Molecular Formula: C₁₁H₁₄N₂O

Batch Molecular Weight: 190.24

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Reavill *et al* (1990) Behavioural and pharmacokinetic studies on nicotine, cytisine and lobeline. *Neuropharmacology* **29** 619. PMID: 2385332.

Happe *et al* (1994) Localization of nicotinic cholinergic receptors in rat brain: autoradiographic studies with [³H]cytisine. *Neuroscience* **62** 929. PMID: 7870314.

Papke *et al* (1994) Partial agonist properties of cytisine on neuronal nicotinic receptors containing the β ₂ subunit. *Mol.Pharmacol.* **45** 142. PMID: 8302273.

Storage: Desiccate at RT

Solubility & Usage Info:

water 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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