

Certificate of Analysis

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Product Name: Mesulergine hydrochloride

Catalog No.: 1644

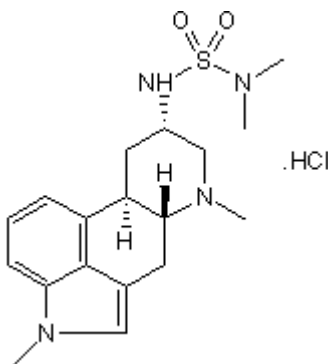
Batch No.: 1

CAS Number: 72786-12-0

IUPAC Name: *N'*-[(8- α 1,6-dimethylergolin-8-yl)-*N,N*-dimethylsulfamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₆N₄O₂S.HCl
Batch Molecular Weight: 398.95
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 water to 5 mM with gentle warming
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.19	6.82	14.04
Found	54.08	6.9	13.98

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

Product Information

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IUPAC Name: *N'*-[(8- α 1,6-dimethylergolin-8-yl)]-*N,N*-dimethylsulfamide hydrochloride

Description:

5-HT_{2A} and _{2C} receptor antagonist (pA₂ values are 9.1 for each receptor) and D₂-like dopamine receptor partial agonist (K_i = 8 nM). Displays antiprolactin and antiparkinsonian effects in vivo.

Physical and Chemical Properties:

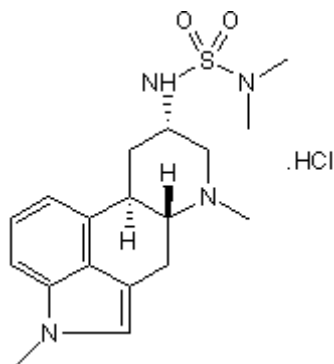
Batch Molecular Formula: C₁₈H₂₆N₄O₂S.HCl

Batch Molecular Weight: 398.95

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage:

Desiccate at RT
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM
water to 5 mM with gentle warming

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:

Markstei (1983) Mesulergine and its 1,20-N,N-bidemethylated metabolite interact directly with D₁- and D₂-receptors. *Eur.J.Pharmacol.* **95** 101. PMID: 6230246.

Marko (1984) Dopamine agonistic potency of two novel prolactin release-inhibiting ergolines. *Eur.J.Pharmacol.* **101** 263. PMID: 6468500.

Hoyer et al (1994) VII. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (serotonin). *Pharmacol.Rev.* **46** 157. PMID: 7938165.

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