

**Product Name:** Mesulergine hydrochloride

**Catalog No.:** 1644

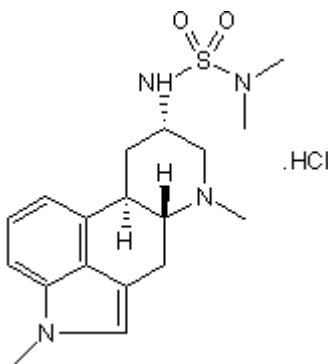
**Batch No.:** 2

CAS Number: 72786-12-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>26</sub>N<sub>4</sub>O<sub>2</sub>S.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 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.19	6.82	14.04
Found	54.24	6.78	14.13

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

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**Description:**

5-HT<sub>2A</sub> and <sub>2C</sub> receptor antagonist (pA<sub>2</sub> values are 9.1 for each receptor) and D<sub>2</sub>-like dopamine receptor partial agonist (K<sub>i</sub> = 8 nM). Displays antiprolactin and antiparkinsonian effects in vivo.

**Physical and Chemical Properties:**

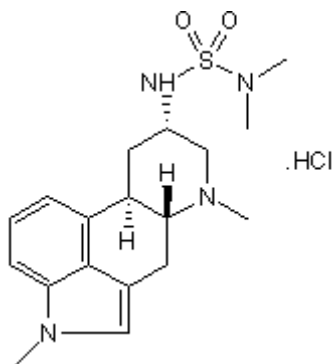
Batch Molecular Formula: C<sub>18</sub>H<sub>26</sub>N<sub>4</sub>O<sub>2</sub>S.HCl

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 D<sub>1</sub>- and D<sub>2</sub>-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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