

**Product Name:** Dihydroergotamine mesylate

**Catalog No.:** 0475

**Batch No.:** 1

CAS Number: 6190-39-2

EC Number: 228-235-6

IUPAC Name: 9,10-Dihydro-12'-hydroxy-2'-methyl-5'-(phenylmethyl)ergotaman-3',6',18-trione mesylate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>33</sub>H<sub>37</sub>N<sub>5</sub>O<sub>5</sub>·CH<sub>3</sub>SO<sub>3</sub>H

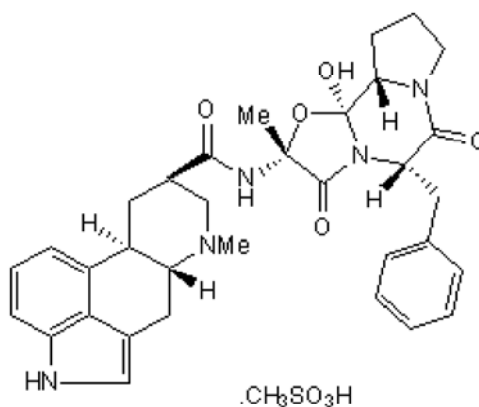
**Batch Molecular Weight:** 679.79

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

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

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**Description:**

Dihydroergotamine mesylate is a partial  $\alpha$ -adrenergic agonist. Partial D<sub>2</sub> dopaminergic receptor agonist. Competitive 5-HT antagonist.

**Physical and Chemical Properties:**

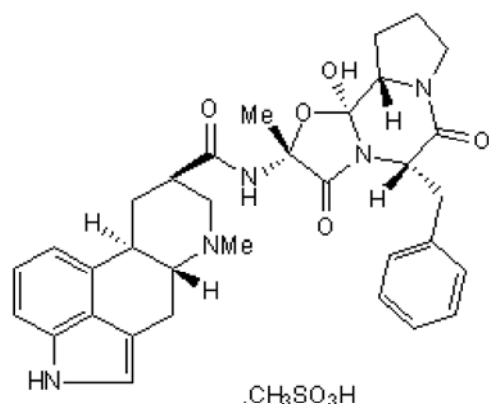
Batch Molecular Formula: C<sub>33</sub>H<sub>37</sub>N<sub>5</sub>O<sub>5</sub>.CH<sub>3</sub>SO<sub>3</sub>H

Batch Molecular Weight: 679.79

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO 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.

**References:**

**Lesage et al** (1998) Agonistic properties of alniditan, sumatr. and dihydroergot. on human 5-HT<sub>1B</sub> and 5-HT<sub>1D</sub> receptors expressed in various mammalian cell lines. *Br.J.Pharmacol.* **123** 1655. PMID: 9605573.

**Doggrell et al** (1992) Further analysis of the inhibitory effects of dihydroergotamine, cyprohept. and ketanserin on the responses of the rat aorta to 5-hydroxytryptamine. *J.Auton.Pharmacol.* **12** 223. PMID: 1512277.

**Villalon et al** (1992) Effects of S9977 and dihydroergot. in an animal experimental model for migraine. *Pharmacol.Res.* **25** 125. PMID: 1635891.

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