

Certificate of Analysis

www.tocris.com

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: $C_{33}H_{37}N_5O_5 \cdot CH_3SO_3H$

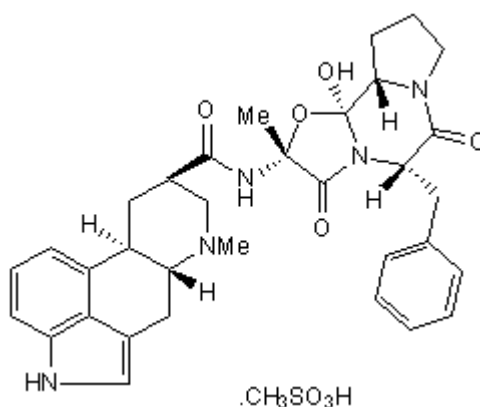
Batch Molecular Weight: 679.79

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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

Description:

Partial α -adrenergic agonist. Partial D₂ dopaminergic receptor agonist. Competitive 5-HT antagonist.

Physical and Chemical Properties:

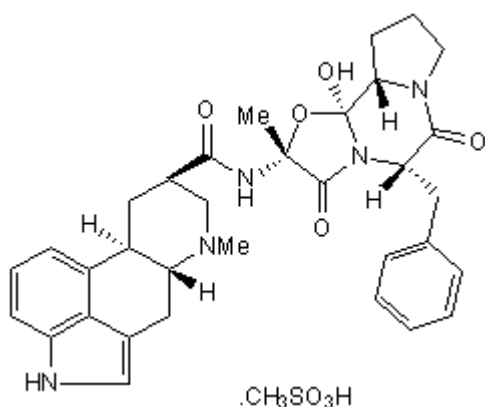
Batch Molecular Formula: C₃₃H₃₇N₅O₅.CH₃SO₃H

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:

de Boer et al (1991) Carotid vascular effects of ergotamine and dihydroergotamine in the pig: no exclusive mediation via 5-HT₁-like receptors. *Br.J.Pharmacol.* **104** 183. PMID: 1664762.

Doggrell et al (1992) Further analysis of the inhibitory effects of dihydroergotamine, cyproheptadine 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 dihydroergotamine in an animal experimental model for migraine. *Pharmacol.Res.* **25** 125. PMID: 1635891.

Lesage et al (1998) Agonistic properties of alniditan, sumatriptan and dihydroergotamine on human 5-HT_{1B} and 5-HT_{1D} receptors expressed in various mammalian cell lines. *Br.J.Pharmacol.* **123** 1655. PMID: 9605573.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956