

Certificate of Analysis

Print Date: Jul 19th 2019

Batch No.: 1

www.tocris.com

Catalog No.: 0505

Product Name: Dihydroergotoxine mesylate

CAS Number: 8067-24-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: White solid

Solubility: Soluble in ethanol

Storage: Store at RT

Batch Molecular Structure:

R=CH(CH),, CH,Ph, CH,CH(CH,),, CH(CH,)CH,CH, (3:32:1 approximately)

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure



Product Information

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Product Name: Dihydroergotoxine mesylate

CAS Number: 8067-24-1

Description:

A complex of closely related alkaloid salts. Binds with high affinity to the GABA_A receptor CI- channel, producing an allosteric interaction with the benzodiazepine site. Also interacts with central dopaminergic, serotonergic and adrenergic (α_1) receptors. Displays antiproliferative activity in vitro (IC $_{50}$ = 18 - 38 μM in prostate cancer cells) and exhibits cognition-enhancing, anticonvulsant and sedative activity in vivo. Orally active.

Physical and Chemical Properties:

Physical Appearance: White solid

Batch Molecular Structure:

R=CH(CH),, CH,PI, CH,CH(CH),, CH(CH,)CH,CH, § 32:1 approximately)

Storage: Store at RT

Solubility & Usage Info:

Soluble in ethanol

This product has an approximate molecular weight of 1190.70

Catalog No.: 0505

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:

Abdul et al (2008) Expression of gamma-aminobutyric acid receptor (subtype A) in prostate cancer Acta Oncol. **47** 1546. PMID: 18607852.

Tvredic and Perici (2003) Effects of ergot alkaloids on 3H-flunitrazepam binding to mouse brain GABAA receptors. Coll.Antropol. 27 S175, PMID: 12955907.

Tvrdeic and Perici (1992) Dihydroergotoxine modulation of the GABA_A receptor-associated CI- ionophore in mouse brain. Eur.J. Pharmacol. **221** 139. PMID: 1333969.

Tvrdeic and Perici (1991) Dihydrogenated ergot compounds bind with high affinity to GABA_A receptor-associated CI- ionophore. Eur.J.Pharmacol. **202** 109. PMID: 1664802.

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