1. PHYSICAL AND CHEMICAL PROPERTIES

   Physical Appearance: White solid
   Solubility: Soluble in ethanol
   Storage: Store at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.2% purity
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
**Product Name:** Dihydroergotoxine mesylate  
**CAS Number:** 8067-24-1

**Description:**
A complex of closely related alkaloid salts. Binds with high affinity to the GABA<sub>A</sub> receptor Cl<sup>-</sup> channel, producing an allosteric interaction with the benzodiazepine site. Also interacts with central dopaminergic, serotonergic and adrenergic (α<sub>1</sub>) receptors. Displays antiproliferative activity in vitro (IC<sub>50</sub> = 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:**

![Batch Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
Soluble in ethanol

This product has an approximate molecular weight of 1190.70

**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:**

