

Certificate of Analysis

Product Name: Bromocriptine mesylate

Catalog No.: 0427

Batch No.: 9

CAS Number: 22260-51-1

EC Number: 244-881-1

IUPAC Name: (5'a)-2-Bromo-12'-hydroxy-2'-(1-methylethyl)-5'-(2-methylpropyl)ergotaman-3',6',18-trione mesylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₄₀BrN₅O₅·CH₃SO₃H

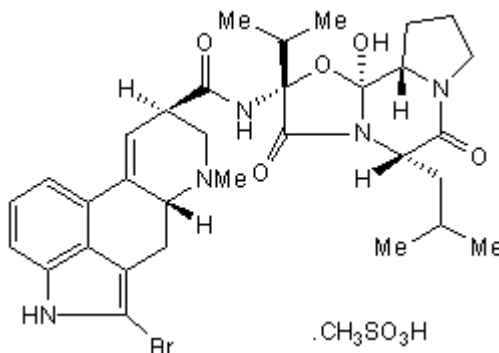
Batch Molecular Weight: 750.7

Physical Appearance: White solid

Solubility: ethanol to 10 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +93.4 (Concentration = 1, Solvent = Methanol)

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 52.8 5.91 9.33

Found 52.46 5.92 9.15

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

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Description:

Selective D₂-like dopamine receptor agonist (K_i values are ~ 8, ~ 5, ~ 290, ~ 440 and ~ 450 nM for D₂, D₃, D₄, D₁ and D₅ receptors respectively).

Physical and Chemical Properties:

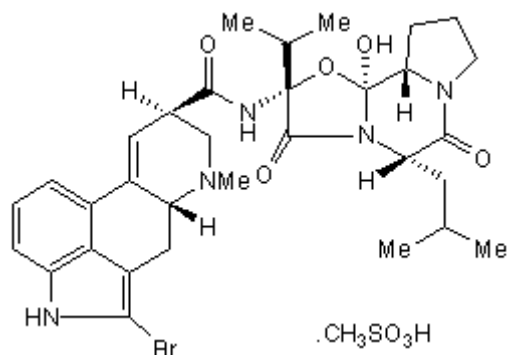
Batch Molecular Formula: C₃₂H₄₀BrN₅O₅·CH₃SO₃H

Batch Molecular Weight: 750.7

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM

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:

Seeman and Van Tol (1994) Dopamine receptor pharmacology. *TiPS* **15** 264. PMID: 7940991.

Aubner et al (1990) Bromocriptine produces decreases in cocaine self-administration in the rat. *Neuropsychopharmacology* **3** 101. PMID: 2317262.

Lieberman and Goldstein (1985) Bromocriptine in Parkinson disease. *Pharmacol.Rev.* **37** 217. PMID: 3901046.

Traub et al (1985) The effects of chronic bromocriptine treatment on behaviour and dopamine receptor binding in the rat striatum. *Eur.J.Pharmacol.* **118** 147. PMID: 3936723.

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