

Certificate of Analysis

Product Name: Rasagiline mesylate

Catalog No.: 4308

Batch No.: 1

CAS Number: 161735-79-1

IUPAC Name: (1*R*)-2,3-Dihydro-*N*-2-propynyl-1*H*-inden-1-amine methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₃N.CH₃SO₃H

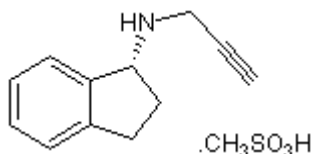
Batch Molecular Weight: 267.34

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 156 - 158°C

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +21.2 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.41	6.41	5.24
Found	58.37	6.42	5.27

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

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Description:

Selective irreversible MAO-B inhibitor. Displays antiParkinsonian activity; exhibits neuroprotective and antiapoptotic activity against several neurotoxins in cell culture.

Physical and Chemical Properties:

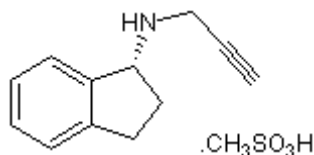
Batch Molecular Formula: C₁₂H₁₃N.CH₃SO₃H

Batch Molecular Weight: 267.34

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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:

Finberg and Youdim (2002) Pharmacological properties of the anti-Parkinson drug rasagiline; modification of endogenous brain amines, reserpine reversal, serotonergic and dopaminergic behaviours. *Neuropharmacology* **43** 1110. PMID: 12504917.

Maruyama et al (2002) The anti-parkinson drug, rasagiline, prevents apoptotic DNA damage induced by peroxynitrite in human dopaminergic neuroblastoma SH-SY5Y cells. *J.Neural Transm.* **109** 467. PMID: 11956966.

Youdim and Weinstock (2002) Molecular basis of neuroprotective activities of rasagiline and the anti-Alzheimer drug TV3326 [(*N*-propargyl-(3*R*)aminoinidan-5-*YL*)-ethyl methyl carbamate]. *Cell.Mol.Neurobiol.* **21** 555.

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