

Certificate of Analysis

Product Name: (R)-(-)-Deprenyl hydrochloride

Catalog No.: 1095

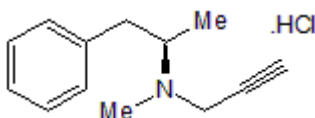
Batch No.: 9

CAS Number: 14611-52-0

IUPAC Name: (R)-(-)-N- α -Dimethyl-N-2-propynylbenzeneethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₇N.HCl
Batch Molecular Weight: 223.74
Physical Appearance: White solid
Solubility: ethanol to 100 mM
 water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -11.4 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.79	8.11	6.26
Found	69.67	8.18	6.42

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

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Description:

Selective inhibitor of monoamine oxidase B (MAO-B).

Physical and Chemical Properties:

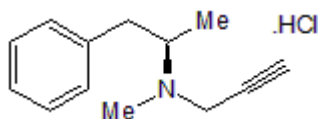
Batch Molecular Formula: C₁₃H₁₇N.HCl

Batch Molecular Weight: 223.74

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM

water 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:

Merck Index **12** 8569.

Gerlach et al (1992) The molecular pharmacology of L-deprenyl. *Eur.J.Pharmacol.* **226** 97. PMID: 1639115.

Kotake et al (1998) Deprenyl decreases an endogenous parkinsonism-inducing compound, 1-benzyl-1,2,3,4-tetrahydroisoquinoline in mice: in vivo and in vitro studies. *Brain Res.* **787** 341. PMID: 9518683.

Mercuri et al (1998) Modification of levodopa responses by deprenyl (selegiline): an electrophysiological and behavioural study in the rat relevant to Parkinson's disease. *Ann.Neurol.* **43** 613. PMID: 9585355.

Kaseda et al (1999) Effect of selegiline on dopamine concentration in the striatum of a primate. *Brain Res.* **815** 44. PMID: 9974121.

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