Print Date: Mar 24th 2022

Certificate of Analysis

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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: $C_{13}H_{17}N.HCl$

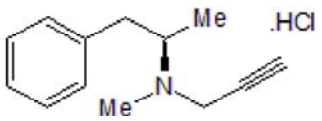
Batch Molecular Weight: 223.74

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

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = -11.4 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.79	8.11	6.26
Found	69.67	8.18	6.42

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CAS Number: 14611-52-0

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

Description:

(R)-(-)-Deprenyl hydrochloride is a selective inhibitor of monoamine oxidase B (MAO-B).

Physical and Chemical Properties:

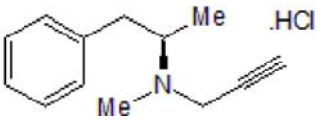
Batch Molecular Formula: $C_{13}H_{17}N.HCl$

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:

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

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 lev. responses by deprenyl (selegiline): an electrophysiological and behavioural study in the rat relevant to Parkinson's disease. Ann.Neurol. ***43*** 613. PMID: 9585355.