



### Catalog # 10-1143

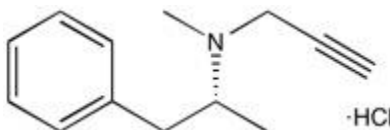
#### Deprenyl

CAS# 14611-52-0

Selegiline;

(R)-(-)-N- $\alpha$ -Dimethyl-N-2-propynylbenzeneethanamine, hydrochloride

Lot # X101437



A potent inhibitor of monoamine oxidase B (MAO- B) which has been used for the treatment of Parkinson's disease.<sup>1,2</sup> Displays neuroprotective effects rescuing nigral dopaminergic neurons after systemic MPTP treatment.<sup>3</sup> Rescues PC12 cells from trophic withdrawal-induced apoptosis.<sup>4</sup> Glyceraldehyde-3-phosphate dehydrogenase has been found to be the putative target responsible for its neuroprotective effects.<sup>5</sup>

- 1) Gerlach *et al.* (1992), *The molecular pharmacology of L-deprenyl*; Eur. J. Pharmacol., **226** 97
- 2) Tetrad and Langston (1989), *The effect of deprenyl (selegiline) on the natural history of Parkinson's disease*; Science, **245** 519
- 3) Tatton and Greenwood (1991), *Rescue of dying neurons: a new action of deprenyl in MPTP parkinsonism*; J. Neurosci Res., **30** 666
- 4) Tatton *et al.* (1994), *(-)-Deprenyl reduces PC12 cell apoptosis by inducing new protein synthesis*; J. Neurochem, **63** 1572
- 5) Kargten *et al.* (1998), *Glyceraldehyde-3-phosphate dehydrogenase, the putative target of the antiapoptotic compounds CGP 3466 and R-(-)-deprenyl*; J. Biol. Chem., **273** 5821

#### PHYSICAL DATA

Molecular Weight:	223.74
Molecular Formula:	C <sub>13</sub> H <sub>17</sub> N · HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Water (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 3 months.

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