

R- (-) -Deprenyl (hydrochloride)

Catalog No: tcsc2764



Available Sizes

Size: 100mg



Specifications

CAS No:

14611-52-0

Formula:

$C_{13}H_{18}ClN$

Pathway:

Neuronal Signaling

Target:

Monoamine Oxidase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Selegiline hydrochloride;L-Deprenyl hydrochloride

Observed Molecular Weight:

223.74

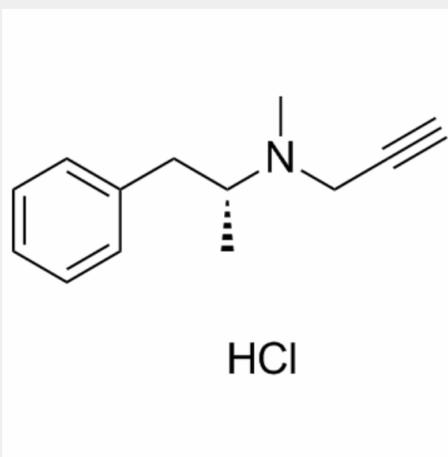
Product Description

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

Target: Monoamine oxidase B

(-)-Deprenyl (selegiline) is an irreversible inhibitor of monoamine oxidase (MAO) B. (-)-Deprenyl in much lower concentrations needed

to induce MAO-B inhibition (10^{-9} to 10^{-13} M) potently inhibits MPTP or serum withdrawal induced apoptosis in tissue cultures of neuro-ectodermal origin (PC12, M1, M2058) [1]. when locomotor activity induced by levodopa was examined on a rodent model of Parkinson's disease, pretreatment of the animals with nonselective doses of deprenyl caused an enhancement of the antiparkinsonian action of levodopa [2]. (-)-Deprenyl is a highly potent and selective, irreversible inhibitor of B-type monoamine oxidase (MAO), a predominantly glial enzyme in the brain. The activity of this enzyme significantly increases with age. (-)-Deprenyl, the first selective inhibitor of MAO-B described in the literature, has become a universally used research tool for selectively blocking B-type MAO and is still the only selective MAO-B inhibitor in world wide clinical use [3].



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