

## Catalog \# 10-2315 <br> Rasagiline mesylate

CAS\# 161735-79-1
TVP-1012; Azilect
(1R)-2,3-Dihydro-N-2-propynyl-1H-inden-1-amine methanesulfonate Lot \# X102629


Potent, irreversible monoamine oxidase (MAO) inhibitor selective for MAO-B ( $\mathrm{IC}_{50}=4.43 \mathrm{nM}$ ) over MAO-A $\left(\mathrm{IC}_{50}=412 \mathrm{nM}\right) .{ }^{1}$ Parkinson's disease therapeutic. ${ }^{2}$ Displays neuroprotective and neurorestorative properties in a Parkinson's disease zebrafish model. ${ }^{3}$ Prevents $\alpha$-synuclein-induced dopaminergic neuronal death and rescues TrkB neurotrophic signaling. ${ }^{4}$ Enhances BDNF levels and is neuroprotective in Parkinson's disease models. ${ }^{5}$

1) Youdim et al. (2001), Rasagiline [N-propargyl-1R(+)-aminoindan], a selective and potent inhibitor of mitochondrial monoamine oxidase B ; Br . J. Pharmacol., 132500
2) Cereda et al. (2017), Efficacy of rasagiline and selegiline in Parkinson's disease: a head-to-head 3-year retrospective case-control study; J. Neurol., 2641254
3) Cronin and Grealy (2017), Neuroprotective and Neuro-restorative Effects of Minocycline and Rasagiline in Zebrafish 6-Hydroxydopamine Model of Parkinson's Disease; Neuroscience, 36734
4) Kang et al. (2017), TrkB neurotrophic activities are blocked by $\alpha$-synuclein, triggering dopaminergic cell death in Parkinson's disease; Proc. Natl. Acad. Sci. USA, 11410773
5) Ledreux et al. (2016), BDNF levels are increased by aminoindan and rasagiline in a double lesion model of Parkinson's disease; Brain Res., 163134

## PHYSICAL DATA

| Molecular Weight: | 267.34 |
| :--- | :--- |
| Molecular Formula: | $\mathrm{C}_{12} \mathrm{H}_{13} \mathrm{~N} \cdot \mathrm{CH}_{3} \mathrm{SO}_{3} \mathrm{H}$ <br> $99 \%$ by HPLC |
| Purity: | NMR: (Conforms) |
| Solubility: | DMSO (up to $50 \mathrm{mg} / \mathrm{ml}$ ), Water (up to $50 \mathrm{mg} / \mathrm{ml}$ ) or Ethanol (up to $30 \mathrm{mg} / \mathrm{ml}$ ) |
| Physical Description: | White solid |
| Storage and Stability: | Store as supplied desiccated at $-20^{\circ} \mathrm{C}$ for up to 2 years from the date of purchase. Solutions in <br>  <br>  <br> DMSO, distilled water or ethanol may be stored at $-20^{\circ} \mathrm{C}$ for up to 1 month. |

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