

Catalog	Unit
TBI2315-50MG	50 mg
TBI2315-250MG	250 mg

Product Details

Formal Name: (1R)-2,3-Dihydro-N-2-propynyl-1H-inden-1-amine methanesulfonate

Alternate Names: TVP-1012; Azilect

Molecular Formula: C₁₂H₁₃N · CH₃SO₃H

Formula Weight: 267.34

CAS Number: 136236-51-6

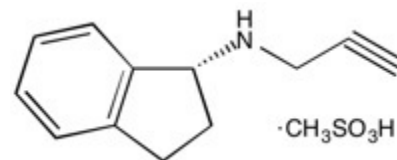
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml), in Water (up to 50 mg/ml) or in Ethanol (up to 30 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

MAO-B inhibitor; Neuroprotective

Functions

Potent, irreversible monoamine oxidase (MAO) inhibitor selective for MAO-B (IC₅₀=4.43 nM) over MAO-A (IC₅₀=412 nM). Parkinson's disease therapeutic. Displays neuroprotective and neurorestorative properties in a Parkinson's disease zebrafish model. Prevents α -synuclein-induced dopaminergic neuronal death and rescues TrkB neurotrophic signaling. Enhances BDNF levels and is neuroprotective in Parkinson's disease models.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml), in Water (up to 50 mg/ml) or in Ethanol (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, distilled water or ethanol may be stored at -20°C for up to 1 month.

For research use only.