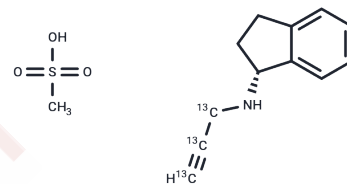


Rasagiline-13C3 (mesylate)

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1391052-18-8 |
| Formula: | C13H17NO3S |
| Molecular Weight: | 270.32 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Rasagiline-13C3 (mesylate) is intended for use as an internal standard for the quantification of rasagiline by GC- or LC-MS. Rasagiline (mesylate) (T6962) is an inhibitor of monoamine oxidase B (MAO-B; IC50= 4.43 nM for the rat brain enzyme). It is selective for MAO-B over MAO-A (IC50= 412 nM for the rat brain enzyme). It inhibits serum and NGF withdrawal-induced apoptosis of PC12 cells when used at concentrations ranging from 0.01 to 100 μM. Rasagiline inhibits rat brain MAO-B in vivo (ED50= 0.1 mg/kg). It reduces cerebral edema in a mouse model of traumatic brain injury. Rasagiline (0.1 mg/kg) reduces cortical and hippocampal levels of full-length and soluble amyloid precursor protein (APP) in rats and mice. It also reduces α-synuclein-induced substantia nigral neuron loss and improves motor dysfunction in a mouse model of Parkinson's disease. Formulations containing rasagiline have been used in the treatment of Parkinson's disease. |
| Targets(IC50) | Apoptosis, Autophagy, Monoamine Oxidase |

Solubility Information

| | |
|------------|---|
| Solubility | Methanol: Slightly soluble DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.6993 mL | 18.4966 mL | 36.9932 mL |
| 5 mM | 0.7399 mL | 3.6993 mL | 7.3986 mL |
| 10 mM | 0.3699 mL | 1.8497 mL | 3.6993 mL |
| 50 mM | 0.074 mL | 0.3699 mL | 0.7399 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Youdim, M.B.H., Gross, A., and Finberg, J.P. Rasagiline [N-propargyl-1R(+)-aminoindan], a selective and potent inhibitor of mitochondrial monoamine oxidase B. *Brit. J. Pharmacol.* 132(2):500-506(2001)
- Youdim, M.B.H., and Weinstock, M. Molecular basis of neuroprotective activities of rasagiline and the anti-Alzheimer drug TV3326 [(N-propargyl-(3R)-aminoindan-5-yl)-ethyl methyl carbamate]. *Cell. Mol. Neurobiol.* 21(6):555-573(2001)
- Kang, S.S., Ahn, E.H., Zhang, Z., et al. α -Synuclein stimulation of monoamine oxidase-B and legumain protease mediates the pathology of Parkinson's disease. *EMBO J.* 37(12):e98878(2018)

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