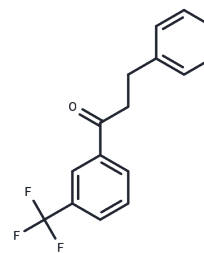


MAO-B-IN-47

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 67082-01-3 |
| Formula: | C16H13F3O |
| Molecular Weight: | 278.27 |
| 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 | MAO-B-IN-47 is a selective inhibitor of monoamine oxidase B (MAO-B) with a K_i value of 875 nM. It exhibits an IC_{50} value of over 100 μ M in SH-SY5Y cells and demonstrates neuroprotective effects in SH-SY5Y cells treated with 6-hydroxydopamine. MAO-B-IN-47 is applicable in research on neurological disorders such as Parkinson's disease (PD). |
| Targets(IC_{50}) | Monoamine Oxidase |
| In vitro | MAO-B-IN-47 (Compound 5a) shows no significant inhibitory effect on the proliferation of normal cells (hSDFs, AT-MSCs) or cancer cells (A-375, U87-MG, SH-SY5Y) when tested at concentrations of 0-40 μ M. Additionally, MAO-B-IN-47 exhibits neuroprotective effects in 6-hydroxydopamine-treated SH-SY5Y cells at concentrations between 12.5-100 μ M for 2 hours. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.5936 mL | 17.9682 mL | 35.9363 mL |
| 5 mM | 0.7187 mL | 3.5936 mL | 7.1873 mL |
| 10 mM | 0.3594 mL | 1.7968 mL | 3.5936 mL |
| 50 mM | 0.0719 mL | 0.3594 mL | 0.7187 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481