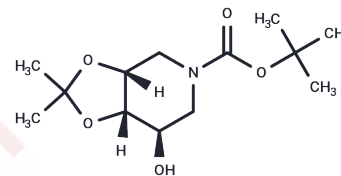


## Glycosidase-IN-1

## Chemical Properties

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 170376-12-2                                                                                                         |
| Formula:          | C <sub>13</sub> H <sub>23</sub> NO <sub>5</sub>                                                                     |
| Molecular Weight: | 273.33                                                                                                              |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |                                                                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Glycosidase-IN-1 is a glycosidase inhibitor synthesized from D-mannose with hypoglycemic activity. It can be used to synthesize some immunosuppressive agents and $\beta$ -glucosidase inhibitors. |
| Targets(IC50) | Others, Glucosidase, glycosidase                                                                                                                                                                   |
| In vitro      | The synthesis of C5-mono-fluorinated piperidine iminosugar (3a) begins with iminosugar [Compound 8], which is derived from D-mannose.                                                              |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.6586 mL | 18.2929 mL | 36.5858 mL |
| 5 mM  | 0.7317 mL | 3.6586 mL  | 7.3172 mL  |
| 10 mM | 0.3659 mL | 1.8293 mL  | 3.6586 mL  |
| 50 mM | 0.0732 mL | 0.3659 mL  | 0.7317 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

Naresh Bhuma, et al. Fluorinated piperidine iminosugars and their N-alkylated derivatives: Synthesis, conformational analysis, immunosuppressive and glycosidase inhibitory activity studies. Tetrahedron 74 (2018) 852-858.

**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