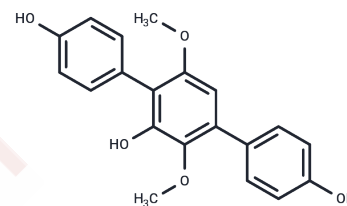


## Terphenyllin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 52452-60-5  |
| Formula:          | C <sub>20</sub> H <sub>18</sub> O <sub>5</sub>  |
| Molecular Weight: | 338.35  |
| 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   | Terphenyllin has $\alpha$ -glucosidase inhibitory activity, and is a natural product isolated from the coral derived fungus <i>Aspergillus candidus</i> . |
| Targets(IC50) | Glucosidase, glycosidase  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 83.33 mg/mL (246.28 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.75 mM), Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9555 mL | 14.7776 mL | 29.5552 mL |
| 5 mM  | 0.5911 mL | 2.9555 mL  | 5.911 mL   |
| 10 mM | 0.2956 mL | 1.4778 mL  | 2.9555 mL  |
| 50 mM | 0.0591 mL | 0.2956 mL  | 0.5911 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

Zhang XQ, et al. Design, semisynthesis,  $\alpha$ -glucosidase inhibitory, cytotoxic, and antibacterial activities of p-terphenyl derivatives. Eur J Med Chem. 2018 Feb 25;146:232-244.

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