

THX6

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight: 441.31

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                | THX6 is an activator of human mitochondrial protease ClpP, with an EC <sub>50</sub> of 1.18 μM. It displays cytotoxicity in ONC201-resistant SU-DIPG-VI cells, with an IC <sub>50</sub> of 0.13 μM. THX6 inhibits the expression of mitochondria-related proteins (such as parkin, TFAM, NRF1, SDHA), leading to impaired mitochondrial function. Additionally, THX6 affects cell membrane lipid metabolism and exhibits antitumor potential. |
| Targets(IC <sub>50</sub> ) | Mitochondrial Metabolism, Protease  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.266 mL  | 11.3299 mL | 22.6598 mL |
| 5 mM  | 0.4532 mL | 2.266 mL   | 4.532 mL   |
| 10 mM | 0.2266 mL | 1.133 mL   | 2.266 mL   |
| 50 mM | 0.0453 mL | 0.2266 mL  | 0.4532 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