

Thalidezine

Chemical Properties

| | |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 18251-36-0 |
| Formula: | C ₃₈ H ₄₂ N ₂ O ₇ |
| Molecular Weight: | 638.75 |
| 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 | Thalidezine, a novel AMPK activator, eliminates apoptosis-resistant cancer cells through energy-mediated autophagic cell death. Thalidezine inhibits growth of mouse L1210 cells in vitro and exhibits antimicrobial activity against Mycobacterium smegmatis at concentrations of 100 microgram/ml or less. Thalidezine is therefore used in metabolic stress and autophagy research systems to investigate AMPK-mediated energy sensing, autophagic cell death pathways, and antimicrobial activity in cellular and microbial models. |
| Targets(IC50) | Apoptosis |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.5656 mL | 7.8278 mL | 15.6556 mL |
| 5 mM | 0.3131 mL | 1.5656 mL | 3.1311 mL |
| 10 mM | 0.1566 mL | 0.7828 mL | 1.5656 mL |
| 50 mM | 0.0313 mL | 0.1566 mL | 0.3131 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

Law BYK, Gordillo-Martínez F, Qu YQ, Zhang N, Xu SW, Coghi PS, et al. Thalidezine, a novel AMPK activator, eliminates apoptosis-resistant cancer cells through energy-mediated autophagic cell death. *Oncotarget*. 2017 May 2;8(18):30077-91. doi:10.18632/oncotarget.15616 PubMed PMID: 28404910; PubMed Central PMCID: PMC5444727.

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