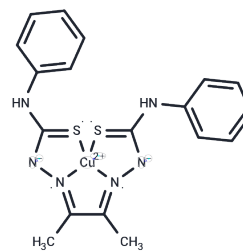


CuATSP

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 68341-12-8 |
| Formula: | C ₁₈ H ₁₈ CuN ₆ S ₂ |
| Molecular Weight: | 446.05 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|---|
| Description | CuATSP is a potent free radical trapping antioxidant (RTA) and ferroptosis inhibitor that reversibly adds a peroxy radical to a bis (thiosemicarbazone) ligand to inhibit lipid peroxidation, showing therapeutic promise for diseases such as amyotrophic lateral sclerosis (ALS) and Parkinson's disease. |
| Targets(IC50) | Others,Ferroptosis |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 2 mg/mL (4.48 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.2419 mL | 11.2095 mL | 22.419 mL |
| 5 mM | 0.4484 mL | 2.2419 mL | 4.4838 mL |
| 10 mM | 0.2242 mL | 1.121 mL | 2.2419 mL |
| 50 mM | 0.0448 mL | 0.2242 mL | 0.4484 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

Zilka O, et al. Radical-Trapping Antioxidant Activity of Copper and Nickel Bis(Thiosemicarbazone) Complexes Underlies Their Potency as Inhibitors of Ferroptotic Cell Death. J Am Chem Soc. 2021 Nov 17;143(45):19043-19057.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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