

## FINO2

## Chemical Properties

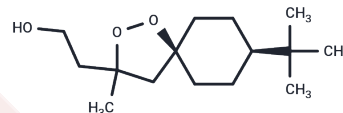
CAS No. : 869298-31-7

Formula: C<sub>15</sub>H<sub>28</sub>O<sub>3</sub>

Molecular Weight: 256.38

Storage: Store at low temperature, Keep away from moisture  
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   | FINO2 is a potent ferroptosis-inducing compound that inhibits GPX4 activity. It functions as a stable oxidant, effectively oxidizing ferrous iron and demonstrating stability across varying pH levels. Furthermore, FINO2 induces widespread lipid peroxidation. |
| Targets(IC50) | Ferroptosis   |
| In vitro      | FINO2 (10 μM; 24 h) induces ferroptosis in HT-1080 cells, demonstrating the iron dependency of lipid peroxidation [1].  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 90 mg/mL (351.04 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.9005 mL | 19.5023 mL | 39.0046 mL |
| 5 mM  | 0.7801 mL | 3.9005 mL  | 7.8009 mL  |
| 10 mM | 0.390 mL  | 1.9502 mL  | 3.9005 mL  |
| 50 mM | 0.078 mL  | 0.390 mL   | 0.7801 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

Gaschler MM, et al. FINO2 initiates ferroptosis through GPX4 inactivation and iron oxidation. Nat Chem Biol. 2018 May;14(5):507-515.

Bi G, Liang J, Bian Y, et al. Polyamine-mediated ferroptosis amplification acts as a targetable vulnerability in cancer. Nature Communications. 2024, 15(1): 2461.

**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