

icFSP1 TFA

Chemical Properties

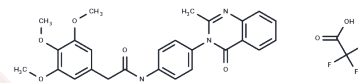
CAS No. :

Formula: C₂₆H₂₅N₃O₅.CF₃COOH

Molecular Weight: 573.52

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

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|----------------------------|--|
| Description | icFSP1, an inhibitor of ferroptosis suppressor protein 1 (FSP1), promotes condensation and phase separation of FSP1 in cellular environments at 2.5 μM concentration but does not affect FSP1's enzymatic function in cell-free assessments (IC ₅₀ = > 30 μM). This compound selectively induces ferroptosis in HT-1080 fibrosarcoma cells in a dose-dependent manner. Furthermore, in vivo studies show that icFSP1 administered at 50 mg/kg significantly reduces both the volume and weight of tumors in a B16/F10 murine melanoma model utilizing human FSP1-overexpressing, Gpx4 ^{-/-} Fsp1 ^{-/-} B16/F10 cells. |
| Targets(IC ₅₀) | Others |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.7436 mL | 8.7181 mL | 17.4362 mL |
| 5 mM | 0.3487 mL | 1.7436 mL | 3.4872 mL |
| 10 mM | 0.1744 mL | 0.8718 mL | 1.7436 mL |
| 50 mM | 0.0349 mL | 0.1744 mL | 0.3487 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

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