

GPX4 24

Chemical Properties

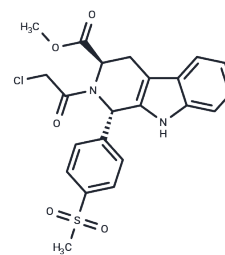
CAS No. :

Formula: C₂₂H₂₁ClN₂O₅S

Molecular Weight: 460.93

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	GPX4 24, a derivative of (1S,3R)-RSL3, acts as a potent inhibitor of glutathione peroxidase 4 (GPX4) through covalent binding in a concentration-dependent manner within 4T1 murine mammary carcinoma cells. This compound effectively induces ferroptosis in GPX4-dependent HT-1080 fibrosarcoma cells with an EC ₅₀ value of 0.16 μM. Additionally, at a dose of 200 mg/kg, GPX4 24 elevates malondialdehyde (MDA) levels in both kidney and plasma of mice, highlighting its impact on lipid peroxidation.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 30 mg/mL (65.09 mM), Sonication is recommended. Ethanol: 20 mg/mL (43.39 mM), Sonication is recommended. DMF: 30 mg/mL (65.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1695 mL	10.8476 mL	21.6953 mL
5 mM	0.4339 mL	2.1695 mL	4.3391 mL
10 mM	0.217 mL	1.0848 mL	2.1695 mL
50 mM	0.0434 mL	0.217 mL	0.4339 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

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