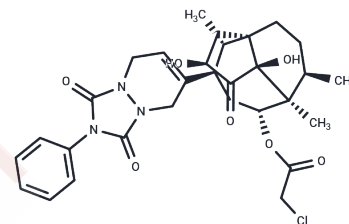


Ferroptocide

Chemical Properties

CAS No. :	2505218-38-0
Formula:	C ₃₀ H ₃₆ ClN ₃ O ₇
Molecular Weight:	586.08
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	Ferroptocide is a thioredoxin inhibitor that induces iron death in cancer cells and can be used in breast cancer research.
Targets(IC50)	Apoptosis, Ferroptosis, Autophagy, Thioredoxin
In vitro	Ferroptocide displays no antibacterial activity (MIC >64 µg/mL) in gram positive (<i>S. aureus</i>) or gram-negative (<i>E. coli</i>) bacteria but has robust anticancer activity in a panel of cancer cell lines and, notably, primary cancer cells freshly isolated from tumor tissues of 15 different patients with diverse metastatic cancers, Ferroptocide with an IC ₅₀ = 1.6 µM against ES-2 cells. [1]

Solubility Information

Solubility	Ethanol: 80 mg/mL(176.64 mM), Sonication is recommended. Methanol: 2 mg/mL(3.41 mM); ,Sonication is recommended. DMSO: 2 mg/mL(3.41 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	1.7063 mL	8.5313 mL	17.0625 mL
5 mM	0.3413 mL	1.7063 mL	3.4125 mL
10 mM	0.1706 mL	0.8531 mL	1.7063 mL
50 mM	0.0341 mL	0.1706 mL	0.3413 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

Llabani E, et al. Diverse compounds from pleuromutilin lead to a thioredoxin inhibitor and inducer of ferroptosis. Nat Chem. 2019 Jun;11(6):521-532.

Tang D, et al. Ferroptosis: molecular mechanisms and health implications. Cell Res. 2021 Feb;31(2):107-125.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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