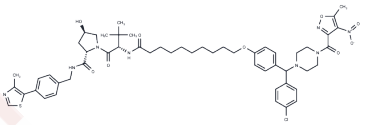
Data Sheet (Cat.No.T201367)

TargetMol

ZX703

Chemical Properties



CAS No. :

Formula: C54H67ClN8O9S

Molecular Weight: 1039.68

Storage: Keep away from direct sunlight
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	ZX703 (compound 5I) is a GPX4-targeting PROTAC that induces efficient, dose- and time-dependent degradation of GPX4 through both ubiquitin-proteasome and autophagy-lysosome pathways, ZX703 results in reactive oxygen species accumulation, ferroptosis induction, and strong mechanistic relevance for cancer biology and ferroptosis-focused therapeutic research.
Targets(IC50)	GPX,PROTACs
In vitro	In human fibrosarcoma HT1080 cells, ZX703 degraded the GPX4 protein in a dose- and time-dependent manner with a DC50 ranging between 0.135 μM and 0.315 μM. Functionally, the compound inhibited cell proliferation with an IC50 of 0.435 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9618 mL	4.8092 mL	9.6183 mL
5 mM	0.1924 mL	0.9618 mL	1.9237 mL
10 mM	0.0962 mL	0.4809 mL	0.9618 mL
50 mM	0.0192 mL	0.0962 mL	0.1924 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

Mengdie Hu, et al. ZX703: A Small-Molecule Degrader of GPX4 Inducing Ferroptosis in Human Cancer Cells. ACS Med Chem Lett. 2024 Feb 15.

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