

GPX4-IN-6

Chemical Properties

CAS No. : 2922824-07-3

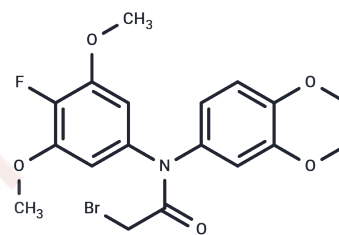
Formula: C₁₈H₁₇BrFNO₅

Molecular Weight: 426.23

Store at low temperature

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-IN-6 is a small molecule covalent GPX4 inhibitor (IC ₅₀ : 0.12 μM) with antitumour activity. GPX4-IN-6 induces ferroptosis and is used for the treatment and prevention of triple negative breast cancer (TNBC).
Targets(IC ₅₀)	Ferroptosis, Glutathione Peroxidase, GPX

Solubility Information

Solubility	DMSO: 30 mg/mL (70.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.69 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3462 mL	11.7308 mL	23.4615 mL
5 mM	0.4692 mL	2.3462 mL	4.6923 mL
10 mM	0.2346 mL	1.1731 mL	2.3462 mL
50 mM	0.0469 mL	0.2346 mL	0.4692 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

Chen T, et al. Discovery of Novel Potent Covalent Glutathione Peroxidase 4 Inhibitors as Highly Selective Ferroptosis Inducers for the Treatment of Triple-Negative Breast Cancer. J Med Chem. 2023 Jul 27;66(14):10036-10059.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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