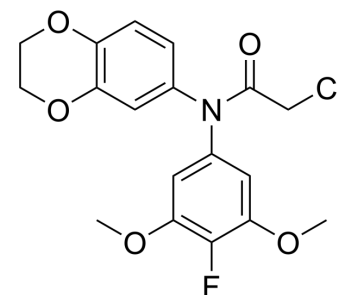


GPX4-IN-5

Cat. No.:	HY-155663		
CAS No.:	2922824-09-5		
Molecular Formula:	C ₁₈ H ₁₇ ClFNO ₅		
Molecular Weight:	381.78		
Target:	Glutathione Peroxidase; Ferroptosis		
Pathway:	Apoptosis; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (261.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6193 mL	13.0965 mL	26.1931 mL
		5 mM	0.5239 mL	2.6193 mL	5.2386 mL
10 mM		0.2619 mL	1.3097 mL	2.6193 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	GPX4-IN-5 (Compound C18) is a GPX4 covalent inhibitor with an IC ₅₀ value of 0.12 μM. GPX4-IN-5 (Compound C18) can induce ferroptosis for the research of triple-negative breast cancer (TNBC) [1].
IC₅₀ & Target	IC ₅₀ : 0.12 μM (GPX4) ^[1]

REFERENCES

[1]. Chen T, et al. Discovery of Novel Potent Covalent Glutathione Peroxidase 4 Inhibitors as Highly Selective Ferroptosis Inducers for the Treatment of Triple-Negative

Caution: Product has not been fully validated for medical applications. For research use only.

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