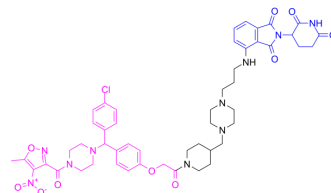


PROTAC GPX4 degrader-1

Cat. No.:	HY-149236
CAS No.:	2916433-81-1
Molecular Formula:	C ₅₀ H ₅₇ ClN ₁₀ O ₁₀
Molecular Weight:	993.5
Target:	Glutathione Peroxidase; Ferroptosis; PROTACs
Pathway:	Apoptosis; Metabolic Enzyme/Protease; PROTAC
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (100.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions	1 mM	1 mg	5 mg	10 mg
		5 mM	1.0065 mL	5.0327 mL	10.0654 mL
10 mM		0.2013 mL	1.0065 mL	2.0131 mL	
		0.1007 mL	0.5033 mL	1.0065 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 (2.52 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.52 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	PROTAC GPX4 degrader-1 (DC-2) is a PROTAC-based GPX4 degrader, with a DC ₅₀ of 0.03 μM in HT1080 cells ^[1] .	
In Vitro	PROTAC GPX4 degrader-1 (DC-2) has been found to induce GPX4 degradation and subsequent ferroptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1] .	
	Cell Line:	HT1080 cells.
	Concentration:	0.003-1 μM.
	Incubation Time:	24 h.

Result:	Dose-dependently degraded GPX4 protein levels.
---------	--

REFERENCES

[1]. Han Wang, et al. Discovery of ML210-Based glutathione peroxidase 4 (GPX4) degrader inducing ferroptosis of human cancer cells. Eur J Med Chem. 2023 Jun 5;254:115343.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA