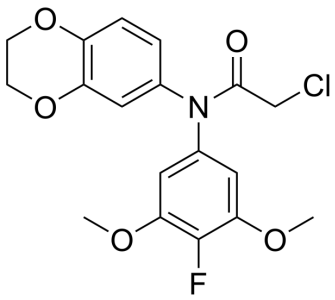
GPX4-IN-5

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:	Metabolic Enzyme/Protease; Apoptosis
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)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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].

IC_{50} & Target

IC50: 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

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