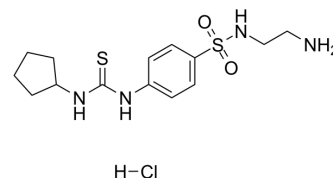


## PKUMDL-LC-101-D04

<b>Cat. No.:</b>	HY-115627
<b>CAS No.:</b>	2143896-83-5
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>23</sub> ClN <sub>4</sub> O <sub>2</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	378.94
<b>Target:</b>	Glutathione Peroxidase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (659.74 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.6389 mL	13.1947 mL	26.3894 mL
		5 mM		0.5278 mL	2.6389 mL	5.2779 mL
		10 mM		0.2639 mL	1.3195 mL	2.6389 mL
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.49 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	PKUMDL-LC-101-D04 (GPX4-Activator-1d4) is a potent ferroptosis regulator glutathione peroxidase 4 (GPX4) allosteric activator (pEC <sub>50</sub> =4.7). PKUMDL-LC-101-D04 increases GPX4 activity to 150% at 20 μM in the cell-free assay and 61 μM in cell extracts <sup>[1]</sup> .
--------------------	---

### REFERENCES

[1]. Li C, et al. Novel Allosteric Activators for Ferroptosis Regulator Glutathione Peroxidase 4. J Med Chem. 2019;62(1):266-275.

---

**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](mailto:tech@MedChemExpress.com)

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