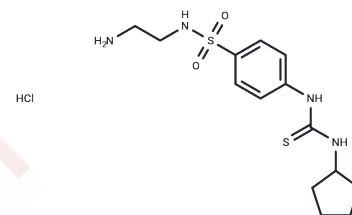


PKUMDL-LC-101-D04

Chemical Properties

CAS No. : 2143896-83-5
 Formula: C₁₄H₂₃ClN₄O₂S₂
 Molecular Weight: 378.94
 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	PKUMDL-LC-101-D04 is a potent allosteric activator of glutathione peroxidase 4 (GPX4), a regulator of ferroptosis. GPX4 activity was increased to 150% of control levels when used at a concentration of 20 μ M in a cell-free assay, and at a concentration of 61 μ M in wild-type, but not Gpx4 ^{-/-} , mouse embryonic fibroblast (MEF) extracts. PKUMDL-LC-101-D04 (200 μ M) reduced cholesterol peroxide-induced MEF death.
Targets(IC50)	Glutathione Peroxidase, GPX
In vitro	PKUMDL-LC-101-D04 (20 μ M) increases GPX4 activity to 150% of control levels when used at a concentration of 20 μ M in a cell-free assay.[1] PKUMDL-LC-101-D04 (200 μ M) also reduces cholesterol hydroperoxide-induced MEF death.[1]

Solubility Information

Solubility	DMSO: 225 mg/mL (593.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0528 mL	0.2639 mL	0.5278 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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