

CS47

Chemical Properties

CAS No. :	1372792-51-2
Formula:	C ₂₁ H ₁₆ AuCl ₂ N ₂ P
Molecular Weight:	595.21
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	CS47 is a reversible inhibitor of thioredoxin reductase 1 (TrxR1). It activates stress-responsive glutathione (GSH) and iron regulatory pathways, leading to GSH depletion. This results in reactive oxygen species (ROS) accumulation, promoting HO-1 overexpression and causing intracellular iron overload, which ultimately induces ferroptosis in lung cancer not dependent on the KRAS gene. CS47 exhibits anticancer activity with low cytotoxicity to normal lung fibroblasts.
Targets(IC50)	Ferroptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6801 mL	8.4004 mL	16.8008 mL
5 mM	0.336 mL	1.6801 mL	3.3602 mL
10 mM	0.168 mL	0.840 mL	1.6801 mL
50 mM	0.0336 mL	0.168 mL	0.336 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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