

## GPX4-IN-4

## Chemical Properties

CAS No. :	2920221-53-8
Formula:	C <sub>22</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	460.93
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	GPX4-IN-4 (Compound 24) is a potent inhibitor of GPX4, employed in cancer research [1].
Targets(IC50)	Glutathione Peroxidase
In vitro	GPX4-IN-4 (Compound 24) reduces HT1080 cell viability in a dose- and time-dependent fashion at concentrations ranging from 0 to 1000 nM and durations up to 24 hours [1]. Similarly, GPX4-IN-4 demonstrates inhibitory effects on NCI-H1703 cell viability over 72 hours, with EC50 values of 0.117 μM without Fer-1 and 4.74 μM with Fer-1 [1].
In vivo	GPX4-IN-4 (Compound 24; 100 and 200 mg/kg; i.p.; once) targets renal GPX4 and induces the expression of PD biomarkers in mice [1]. Despite partial target engagement observed in tumor masses, GPX4-IN-4 (50 mg/kg; i.p.; daily for 20 days) does not affect the growth of WSU-DLCL2 tumors in mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1695 mL	10.8476 mL	21.6953 mL
5 mM	0.4339 mL	2.1695 mL	4.3391 mL
10 mM	0.217 mL	1.0848 mL	2.1695 mL
50 mM	0.0434 mL	0.217 mL	0.4339 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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481