

## Selenocystine

## Chemical Properties

CAS No. : 2897-21-4

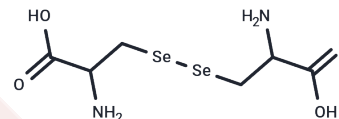
Formula: C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>Se<sub>2</sub>

Molecular Weight: 334.09

Storage: Store under nitrogen, Keep away from moisture, Store at low temperature

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	Selenocystine is a broad-spectrum anticancer agent that can induce DNA damage in HepG2 cells, among which DNA double-strand breaks (DSBs) are prominent. Selenocystine can be used in tumor-related research and has certain research value and application prospects in targeted DNA repair mechanism research.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	1 M HCl: 80 mg/mL (239.46 mM), when pH is adjusted to 1 with H <sub>2</sub> O. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9932 mL	14.966 mL	29.9321 mL
5 mM	0.5986 mL	2.9932 mL	5.9864 mL
10 mM	0.2993 mL	1.4966 mL	2.9932 mL
50 mM	0.0599 mL	0.2993 mL	0.5986 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

Eva Ari Wahyuni, et al. Selenocystine induces oxidative-mediated DNA damage via impairing homologous recombination repair of DNA double-strand breaks in human hepatoma cells. Chem Biol Interact. 2022 Sep 25: 365:110046.

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