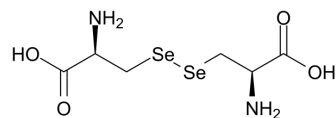


## L-Selenocystine

<b>Cat. No.:</b>	HY-129960		
<b>CAS No.:</b>	29621-88-3		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> Se <sub>2</sub>		
<b>Molecular Weight:</b>	334.09		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 5.88 mg/mL (17.60 mM; ultrasonic and warming and adjust pH to 1 with HCl and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9932 mL	14.9660 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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

L-Selenocystine is a diselenide-bridged amino acid. L-Selenocystine is a redox-active selenium compound that has both anti- and pro-oxidant actions. L-Selenocystine induces an unfolded protein response, ER stress, and large cytoplasmic vacuolization in HeLa cells and has cytostatic effects in a range of cancer cell types<sup>[1]</sup>.

### REFERENCES

[1]. Michio Iwaoka, et al. Synthesis of selenocysteine and selenomethionine derivatives from sulfur-containing amino acids. Chem Biodivers. 2008 Mar;5(3):359-74. Michio Iwaoka, et al. Synthesis of selenocysteine and selenomethionine derivatives from sulfur-cont

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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