L-Selenocystine

Cat. No.: HY-129960

CAS No.: 29621-88-3

Molecular Formula: $C_6H_{12}N_2O_4Se_2$

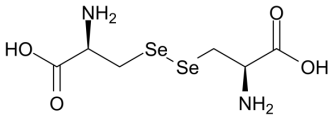
Molecular Weight: 334.09

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 5.88 mg/mL (17.60 mM; ultrasonic and warming and adjust pH to 1 with HCl and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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[1].

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

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

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