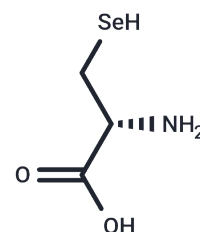


## Selenocysteine

### Chemical Properties

CAS No. : 10236-58-5  
Formula: C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>Se  
Molecular Weight: 168.05  
Appearance: no data available  
Storage: store at low temperature, store under nitrogen  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### Biological Description

|               |                                                                                                                                                         |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Selenocysteine is recognized as the 21st amino acid in ribosome-mediated protein synthesis and its specific incorporation is directed by the UGA codon. |
| Targets(IC50) | Others                                                                                                                                                  |

### Solubility Information

|            |                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------|
| Solubility | H <sub>2</sub> O: <1mg/mL<br/>DMSO: <1mg/mL<br/>&lt; 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 5.9506 mL | 29.753 mL | 59.5061 mL |
| 5 mM  | 1.1901 mL | 5.9506 mL | 11.9012 mL |
| 10 mM | 0.5951 mL | 2.9753 mL | 5.9506 mL  |
| 50 mM | 0.119 mL  | 0.5951 mL | 1.1901 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.

### Reference

A Böck, Forchhammer K , Heider J , et al. Selenocysteine: the 21st amino acid[J]. Molecular Microbiology, 1991, 5 (3):515-520.

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