

L-SelenoMethionine

Chemical Properties

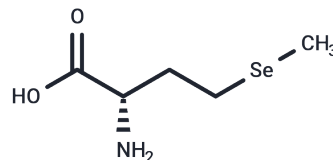
CAS No. : 3211-76-5

Formula: C₅H₁₁NO₂Se

Molecular Weight: 196.11

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	L-SelenoMethionine (L-(+)-Selenomethionine) is a naturally occurring amino acid. It promotes cell cycle progression and elevates the expression of the antioxidant enzymes thioredoxin reductase, glutathione reductase.
Targets(IC50)	Apoptosis,Amino Acids and Derivatives,Endogenous Metabolite
In vitro	At 5 μ M, L-selenomethionine selectively induces apoptosis in LNCaP prostate cancer cells without affecting non-cancerous cells [1]. c-Myc, cyclin C, proliferating cell nuclear antigen, cyclin-dependent kinase (cdk)1, cdk2, cdk4, cyclin B and cyclin D2 mRNA levels were lower in selenium-deficient cells than in the cells supplemented with 0.25 micromol/L selenomethionine. The phosphorylation state of total cellular protein was higher (57%) in selenium-supplemented cells than in selenium-deficient cells [2].

Solubility Information

Solubility	DMSO: < 1mg/ml (insoluble) ,Sonication is recommended. H2O: 30 mg/mL(152.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0992 mL	25.4959 mL	50.9918 mL
5 mM	1.0198 mL	5.0992 mL	10.1984 mL
10 mM	0.5099 mL	2.5496 mL	5.0992 mL
50 mM	0.102 mL	0.5099 mL	1.0198 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

Stewart J, et al. Effects of selenomethionine on the gene expression profile of cloned human prostate cancer cells representing a phenotypic continuum of cancer progression. Nutr Cancer. 2008;60(6):826-36.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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