**Product Information**

**L-Selenomethionine**  
*Item No. 16005*

**CAS Registry No.:** 3211-76-5  
**Formal Name:** 2S-amino-4-(methylseleno)-butanoic acid  
**Synonyms:** Selenomax®, SEM, SeMet  
**MF:** C₅H₁₁NO₂Se  
**FW:** 196.1  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** \( \lambda_{\text{max}} = 215 \text{ nm} \)

**Laboratory Procedures**

For long term storage, we suggest that L-selenomethionine (SeMet) be stored as supplied at -20°C. It should be stable for at least two years.

SeMet is supplied as a crystalline solid. A stock solution may be made by dissolving the SeMet in the solvent of choice. SeMet is soluble in water at a concentration of approximately 50 mg/ml.

SeMet, a naturally occurring amino acid, is the predominant form of selenium found in Brazil nuts, grains, soy beans, and legumes.¹ It promotes cell cycle progression and is known to elevate the expression of the antioxidant enzymes thioredoxin reductase, glutathione reductase, and glutathione peroxidase.²⁻⁴ At 5 µM, SeMet has been shown to selectively induce apoptosis in LNCaP prostate cancer cells without affecting non-cancerous cells.⁵

**References**


**Related Products**

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