

L-Methionine

Chemical Properties

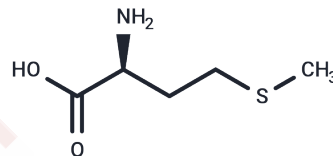
CAS No. : 63-68-3

Formula: C₅H₁₁NO₂S

Molecular Weight: 149.21

Appearance: no data available

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



Biological Description

| | |
|---------------|---|
| Description | L-Methionine (L-Methionin) is the L-isomer of Methionine. Methionine is an essential amino acid for human development and acts as a hepatoprotectant. |
| Targets(IC50) | Endogenous Metabolite |

Solubility Information

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|------------|--|
| Solubility | DMSO: Insoluble, H ₂ O: 50 mg/mL (335.1 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 | 6.702 mL | 33.5098 mL | 67.0196 mL |
| 5 mM | 1.3404 mL | 6.702 mL | 13.4039 mL |
| 10 mM | 0.6702 mL | 3.351 mL | 6.702 mL |
| 50 mM | 0.134 mL | 0.6702 mL | 1.3404 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

- Sreekumar A , Poisson L M , Rajendiran T M , et al. Corrigendum: Metabolomic profiles delineate potential role for sarcosine in prostate cancer progression[J]. Nature, 2009, 457(7231):910-914.
- Shoemaker J D , Elliott W H . Automated screening of urine samples for carbohydrates, organic and amino acids after treatment with urease.[J]. J Chromatogr, 1991, 562(1-2):125-138.
- Engelborghs S , Marescau B , Deyn P P D . Amino Acids and Biogenic Amines in Cerebrospinal Fluid of Patients with Parkinson's Disease[J]. Neurochemical Research, 2003, 28(8):1145-1150.
- Hagenfeldt L , Bjerkenstedt L , Edman G , et al. Amino Acids in Plasma and CSF and Monoamine Metabolites in CSF: Interrelationship in Healthy Subjects [J]. Journal of Neurochemistry, 1984, 42(3):5.
- Peng C T , Wu K H , Lan S J , et al. Amino acid concentrations in cerebrospinal fluid in children with acute lymphoblastic leukemia undergoing chemotherapy[J]. European Journal of Cancer, 2005, 41(8):0-1163.

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