

## S-Adenosyl-L-methionine

## Chemical Properties

CAS No. : 29908-03-0

Formula: C<sub>15</sub>H<sub>22</sub>N<sub>6</sub>O<sub>5</sub>S

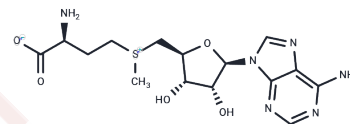
Molecular Weight: 398.44

Storage:

Store under nitrogen, Store at low temperature, Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |   |
|---------------|---|
| Description   | S-Adenosyl-L-methionine (Ademetionine) is an intermediate metabolite of methionine, for treatment of primary biliary cirrhosis and major depressive disorder. |
| Targets(IC50) | Apoptosis, Endogenous Metabolite  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | H <sub>2</sub> O: 43 mg/mL (107.92 mM), Sonication is recommended.<br>DMSO: 100 mg/mL (250.98 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.5098 mL | 12.5489 mL | 25.0979 mL |
| 5 mM  | 0.502 mL  | 2.5098 mL  | 5.0196 mL  |
| 10 mM | 0.251 mL  | 1.2549 mL  | 2.5098 mL  |
| 50 mM | 0.0502 mL | 0.251 mL   | 0.502 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Ivashkin V T , Maevskaya M V , Kobalava Z D , et al. Open-label study of ademetionine for the treatment of intrahepatic cholestasis associated with alcoholic liver disease.[J]. *Minerva Gastroenterologica E Dietologica*, 2018.
- Liang S, Zhao W, Chen Y, et al. A comparative investigation of catalytic mechanism and domain between catechol-O-methyltransferase isoforms by isomeric shikonin and alkannin. *International Journal of Biological Macromolecules*. 2023: 124758.
- Bressa G M . S-adenosyl-l-methionine (S-AdoMet) as antidepressant: meta-analysis of clinical studies[J]. *Acta Neurol Scand Suppl.*:7-14.

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