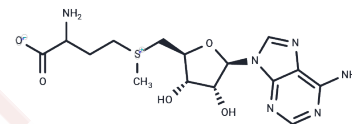


## S-Adenosyl-DL-Methionine

### Chemical Properties

CAS No. : 17176-17-9  
 Formula: C<sub>15</sub>H<sub>22</sub>N<sub>6</sub>O<sub>5</sub>  
 Molecular Weight: 398.44  
 Storage: 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-DL-Methionine (Ademetionine) is a ubiquitous methyl donor involved in a wide variety of biological reactions, including those mediated by DNA and protein methyltransferases. SAM reportedly ameliorates depression, pain associated with osteoarthritis and fibromyalgia, and liver toxicity.
Targets(IC50)	Others

### Solubility Information

Solubility	DMSO: 10 mg/mL (25.1 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	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

- Loenen, W.A.M. S-Adenosylmethionine: Jack of all trades and master of everything. *Biochemical Society Transactions* 34(2), 330-333 (2006).
- De Berardis, N., et al. S-Adenosyl-L-Methionine augmentation in patients with stage II treatment-resistant major depressive disorder: An open label, fixed dose, single-blind study. *ScientificWorldJournal* 2013, 1-6 (2013).

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