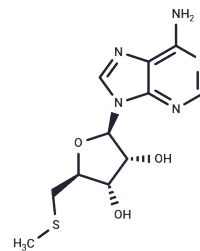


## 5'-Methylthioadenosine

## Chemical Properties

CAS No. :	2457-80-9
Formula:	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>3</sub> S
Molecular Weight:	297.33
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	4-Methyl-2-oxopentanoic acid is an abnormal metabolite, a neurotoxin and a metabolic toxin.
Targets(IC50)	Apoptosis,Endogenous Metabolite,Parasite

## Solubility Information

Solubility	DMF: 2.5 mg/mL (8.41 mM),Sonication is recommended. H <sub>2</sub> O: 1 mg/mL (3.36 mM),Sonication is recommended. DMSO: 250 mg/mL (840.82 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.73 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (33.63 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.3633 mL	16.8163 mL	33.6327 mL
5 mM	0.6727 mL	3.3633 mL	6.7265 mL
10 mM	0.3363 mL	1.6816 mL	3.3633 mL
50 mM	0.0673 mL	0.3363 mL	0.6727 mL

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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

Avila MA, et al. Methylthioadenosine. Int J Biochem Cell Biol. 2004 Nov;36(11):2125-30.

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