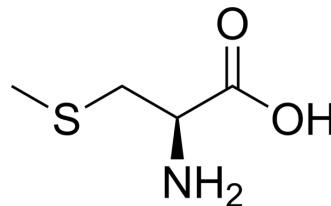


## S-Methyl-L-cysteine

<b>Cat. No.:</b>	HY-B2188												
<b>CAS No.:</b>	1187-84-4												
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub> S												
<b>Molecular Weight:</b>	135.18												
<b>Target:</b>	Reactive Oxygen Species												
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
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	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 30 mg/mL (221.93 mM; Need ultrasonic and warming)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	7.3975 mL	36.9877 mL	73.9754 mL
		5 mM	1.4795 mL	7.3975 mL	14.7951 mL
10 mM		0.7398 mL	3.6988 mL	7.3975 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (369.88 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	S-Methyl-L-cysteine is a natural product that acts as a substrate in the catalytic antioxidant system mediated by methionine sulfoxide reductase A (MSRA), with antioxidative, neuroprotective, and anti-obesity activities.
<b>In Vivo</b>	S-Methyl-L-cysteine (100 mg/kg) results in significant attenuation of plasma glucose, insulin, tumor necrosis factor-α, insulin resistance and improved antioxidant enzyme activities <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Thomas S, et al. Effect of s-methyl-L-cysteine on oxidative stress, inflammation and insulin resistance in male wistar rats fed with high fructose diet. Iran J Med Sci. 2015

**Caution: Product has not been fully validated for medical applications. For research use only.**

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