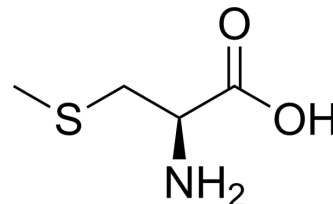


## S-Methyl-L-cysteine

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



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 30 mg/mL (221.93 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		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.						
In Vivo	1. Add each solvent one by one: PBS					
	Solubility: 50 mg/mL (369.88 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	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.
In Vivo	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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA