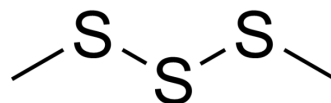


## Dimethyl trisulfide

<b>Cat. No.:</b>	HY-128454		
<b>CAS No.:</b>	3658-80-8		
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>6</sub> S <sub>3</sub>		
<b>Molecular Weight:</b>	126.26		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (792.02 mM; Need ultrasonic)  
 H<sub>2</sub>O : 1 mg/mL (7.92 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.9202 mL	39.6008 mL	79.2017 mL
	5 mM	1.5840 mL	7.9202 mL	15.8403 mL
	10 mM	0.7920 mL	3.9601 mL	7.9202 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (792.02 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (19.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (19.80 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Dimethyl trisulfide is an organic chemical compound and the simplest organic trisulfide found in garlic, onion, broccoli, and similar plants. Dimethyl trisulfide is a cyanide antidote<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Microbial Metabolite	Human Endogenous Metabolite
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## REFERENCES

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[1]. Rockwood GA, et al. Dimethyl trisulfide: A novel cyanide countermeasure. Toxicol Ind Health. 2016 Dec;32(12):2009-2016.

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

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