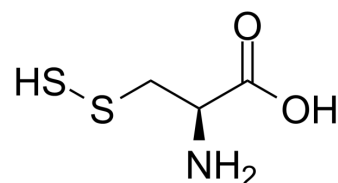


Thiocysteine

Cat. No.:	HY-115890
CAS No.:	6165-31-7
Molecular Formula:	C ₃ H ₇ NO ₂ S ₂
Molecular Weight:	153.22
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thiocysteine is the trisulfide analog of cysteine, it can modify cysteine in proteins. Thiocysteine is an activator for aminolevulinate synthetase. Thiocysteine can be used for cysteine metabolism research ^{[1][2]} .	
In Vitro	Thiocysteine directly interacts with reactive oxygen species ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Thiocysteine (120 mg/kg; i.v., once) shows protective properties against toxicity of cyanide ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Adult male and female rats with cyanide injection ^[1]
	Dosage:	120 mg/kg
	Administration:	Intravenous injection; 120 mg/kg, once
	Result:	Showed completely protective effects to testing animals.

REFERENCES

[1]. Wood JL. Nutritional and protective properties of thiocysteine. Proc Soc Exp Biol Med. 1980 Dec;165(3):469-72.

[2]. Reitzer L. Death by Cystine: an Adverse Emergent Property from a Beneficial Series of Reactions. J Bacteriol. 2015 Dec;197(23):3626-8.

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

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