

## Tiomolibdate diammonium

## Chemical Properties

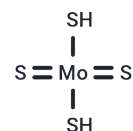
CAS No. : 15060-55-6

NH<sub>3</sub>NH<sub>3</sub>Formula: H<sub>8</sub>MoN<sub>2</sub>S<sub>4</sub>

Molecular Weight: 260.28

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	Tiomolibdate diammonium (NSC-286644) is an inhibitor of superoxide dismutase 1 (SOD1) exerting antiangiogenic and antitumor activities. Tiomolibdate diammonium inhibits the activities of cuproenzymes, including SOD1 and COX.
Targets(IC50)	Others,Cuproptosis

## Solubility Information

Solubility	DMSO: 2.61 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.842 mL	19.2101 mL	38.4202 mL
5 mM	0.7684 mL	3.842 mL	7.684 mL
10 mM	0.3842 mL	1.921 mL	3.842 mL
50 mM	0.0768 mL	0.3842 mL	0.7684 mL

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

Chisholm CL, et al. Ammonium tetrathiomolybdate treatment targets the copper transporter ATP7A and enhances sensitivity of breast cancer to cisplatin. *Oncotarget*. 2016 Oct 31.

Xu S, et al. Ammonium tetrathiomolybdate as a water-soluble and slow-release hydrogen sulfide donor. *Bioorg Med Chem Lett*. 2016 Mar 15;26(6):1585-8.

Chan CM, et al. Pharmacologic evaluation of ammonium tetrathiomolybdate after intravenous and oral administration to healthy dogs. *Am J Vet Res*. 2015 May;76(5):445-53.

Chatterjee S, et al. Ammonium tetrathiomolybdate: a versatile catalyst for hydrogen evolution reaction from water under ambient and hostile conditions. *Inorg Chem*. 2013 Dec 16;52(24):14168-77.

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