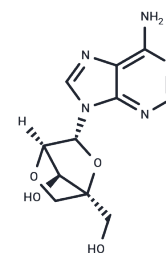


## TMTD (Tetramethylthiuram disulfide)

## Chemical Properties

CAS No. :	137-26-8
Formula:	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> S <sub>4</sub>
Molecular Weight:	240.43
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	TMTD (Tetramethylthiuram disulfide) reduces the growth performance of chickens by reducing liver index, while increasing kidney, heart and spleen index. In addition, TMTD also induces tibial chondrodysplasia (TD) by regulating the expression of VEGF, HIF-1 $\alpha$ and WNT4. As a super accelerator in rubber processing, TMTD plays an important role in the low-temperature vulcanization process and is a key pesticide in agriculture.
Targets(IC50)	Others,Antifungal

## Solubility Information

Solubility	DMSO: 18.33 mg/mL (76.24 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	4.1592 mL	20.7961 mL	41.5921 mL
5 mM	0.8318 mL	4.1592 mL	8.3184 mL
10 mM	0.4159 mL	2.0796 mL	4.1592 mL
50 mM	0.0832 mL	0.4159 mL	0.8318 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

Zhang H, et al. Environ Sci Pollut Res Int. 2018 Oct;25(28):28264-28274.

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