Tetramethylthiuram monosulfide

Cat. No.: HY-W020246

CAS No.: 97-74-5

Molecular Formula: $C_6H_{12}N_2S_3$

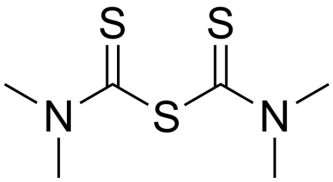
Molecular Weight: 208.37

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1199.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7992 mL	23.9958 mL	47.9916 mL
	5 mM	0.9598 mL	4.7992 mL	9.5983 mL
	10 mM	0.4799 mL	2.3996 mL	4.7992 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (9.98 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (9.98 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetramethylthiuram monosulfide (TMTM) is an active compound. Tetramethylthiuram monosulfide (TMTM) can be used for the research of rubber and various biochemical studies[1][2].

REFERENCES

[1]. Coleman, et al. Vibrational spectra of thiuram sulfides. Normal coordinate analysis of tetramethylthiuram mono-, di-, and tetrasulfides. Journal of Polymer Science, Polymer Physics Edition.Volume: 12.Issue: 5.Pages: 1001-13.Journal.1974.

[2]. Yingtao Sun, et al. Synergistic Effect of Copper Sulfate and Tetramethylthiuram Monosulfide Induced Metal-Coordination Cross-Linking in Nitrile–Butadiene Rubber. 25 April 2021.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA