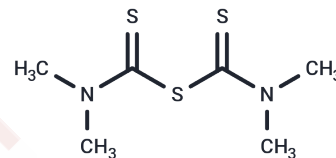


Tetramethylthiuram monosulfide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 97-74-5 |
| Formula: | C ₆ H ₁₂ N ₂ S ₃ |
| Molecular Weight: | 208.37 |
| 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 | Tetramethylthiuram monosulfide is widely used as a catalyst in rubber-processing techniques, it possesses a medium-degree toxicity and causes point mutations in strains TA 100 and TA 1535 (Salmonella typhimurium LT 2). |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|---|
| Solubility | Ethanol: 3 mg/mL (14.4 mM),Sonication is recommended. DMSO: 50 mg/mL (239.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.6 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 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 |
| 50 mM | 0.096 mL | 0.4799 mL | 0.9598 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

Alanis OT, et al. Environ Res. 1982 Jun;28(1):199-211.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481