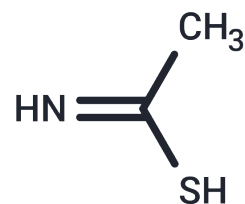


Thioacetamide

Chemical Properties

CAS No. :	62-55-5
Formula:	C ₂ H ₅ NS
Molecular Weight:	75.13
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Thioacetamide (TAA) is an indirect hepatotoxin commonly used to induce experimental liver injury. It is metabolized by CYP2E1 into reactive metabolites that covalently bind to proteins and lipids, leading to oxidative stress and centrilobular necrosis, hepatocyte death, and M1/M2 macrophage-dominated inflammation. TAA is widely used to establish models of chronic liver fibrosis, hepatic encephalopathy, and liver cancer.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 55 mg/mL (732.06 mM), Sonication is recommended. H ₂ O: 16.3 g/100 mL (25 oC), Sonication and heating to 60°C are 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 (26.62 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	13.3103 mL	66.5513 mL	133.1026 mL
5 mM	2.6621 mL	13.3103 mL	26.6205 mL
10 mM	1.331 mL	6.6551 mL	13.3103 mL
50 mM	0.2662 mL	1.331 mL	2.6621 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

- Staňková P, et al. The toxic effect of thioacetamide on rat liver in vitro. *Toxicol In Vitro*. 2010 Dec;24(8):2097-103.
- Kuramochi M, et al. Involvement of neutrophils in rat livers by low-dose thioacetamide administration. *J Vet Med Sci*. 2021 Mar 11;83(3):390-396.

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