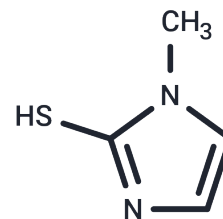


Methimazole

Chemical Properties

| | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 60-56-0 |
| Formula: | C ₄ H ₆ N ₂ S |
| Molecular Weight: | 114.17 |
| 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 | Methimazole (Thiamazole) is an antithyroid compound with significant hepatotoxicity and is often used in the study of hyperthyroidism. |
| Targets(IC50) | Others,Thyroid hormone receptor(THR) |

Solubility Information

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | Ethanol: 22 mg/mL (192.7 mM),Sonication is recommended. DMSO: 250 mg/mL (2189.72 mM),Sonication is recommended. H ₂ O: 21 mg/mL (183.94 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 (17.52 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (87.59 mM),Solution. <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 | 8.7589 mL | 43.7943 mL | 87.5887 mL |
| 5 mM | 1.7518 mL | 8.7589 mL | 17.5177 mL |
| 10 mM | 0.8759 mL | 4.3794 mL | 8.7589 mL |
| 50 mM | 0.1752 mL | 0.8759 mL | 1.7518 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

Sugawara M, et al. Thyroid. 1999 May; 9(5):513-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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