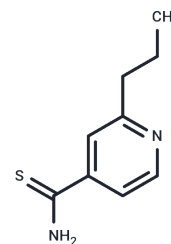


Prothionamide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 14222-60-7 |
| Formula: | C ₉ H ₁₂ N ₂ S |
| Molecular Weight: | 180.27 |
| 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 | Prothionamide (1321-TH) is a thioamide derivative with antitubercular activity. |
| Targets(IC50) | Antibacterial, Antibiotic |

Solubility Information

| | |
|---------------------|--|
| Solubility | Ethanol: 7 mg/mL (38.83 mM), Sonication is recommended. DMSO: 55 mg/mL (305.1 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (11.09 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 | 5.5472 mL | 27.7362 mL | 55.4723 mL |
| 5 mM | 1.1094 mL | 5.5472 mL | 11.0945 mL |
| 10 mM | 0.5547 mL | 2.7736 mL | 5.5472 mL |
| 50 mM | 0.1109 mL | 0.5547 mL | 1.1094 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

Projahn M, et al. Antimicrob Agents ChemOthers. 2011 Sep;55(9):4408-11.

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