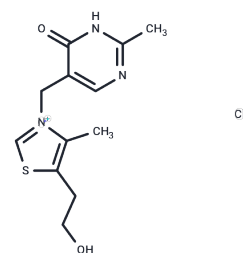


Oxythiamine chloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 582-36-5 |
| Formula: | C ₁₂ H ₁₆ ClN ₃ O ₂ S |
| Molecular Weight: | 301.79 |
| 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 | Oxythiamine (Hydroxythiamine) chloride, a thiamine antagonist and analogue of anti-metabolite, inhibits transketolase (TK) and suppresses the non-oxidative synthesis of ribose, leading to cell apoptosis. It inhibits cancer cell proliferation and induces apoptosis [1] [2] [3]. |
| Targets(IC50) | Apoptosis |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.3136 mL | 16.5678 mL | 33.1356 mL |
| 5 mM | 0.6627 mL | 3.3136 mL | 6.6271 mL |
| 10 mM | 0.3314 mL | 1.6568 mL | 3.3136 mL |
| 50 mM | 0.0663 mL | 0.3314 mL | 0.6627 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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