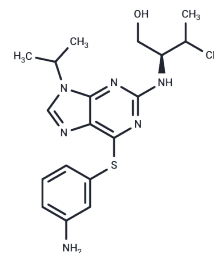


Diminutol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 361431-33-6 |
| Formula: | C ₁₉ H ₂₆ N ₆ O ₅ |
| Molecular Weight: | 386.51 |
| 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 | Diminutol is a cell-permeable purine derivative that inhibits the NADP-dependent oxidoreductase, NQO1 (K _i = 1.72 μM), to destabilize microtubules and disrupt mitosis. At 50 μM, it directly affects tubulin polymerization in <i>Xenopus</i> egg extracts without interfering with the activity of Cdk1, DNA replication, or actin polymerization. |
| Targets(IC50) | Others, Microtubule Associated |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (1.29 mM), Sonication is recommended. DMF: 30 mg/mL (77.62 mM), Sonication is recommended. Ethanol: 20 mg/mL (51.75 mM), Sonication is recommended. DMSO: 30 mg/mL (77.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5873 mL | 12.9363 mL | 25.8726 mL |
| 5 mM | 0.5175 mL | 2.5873 mL | 5.1745 mL |
| 10 mM | 0.2587 mL | 1.2936 mL | 2.5873 mL |
| 50 mM | 0.0517 mL | 0.2587 mL | 0.5175 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

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

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