

Rbin-1

Chemical Properties

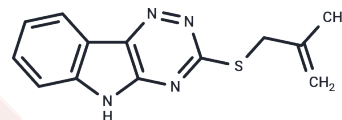
CAS No. : 328023-11-6

Formula: C₁₃H₁₂N₄S

Molecular Weight: 256.33

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 | Rbin-1 (Ribozinoindole-1) is a potent, specific inhibitor of eukaryotic ribosome biogenesis. |
| Targets(IC50) | ATPase, Phosphatase |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 31 mg/mL (120.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 1.5 mg/mL (5.85 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 | 3.9012 mL | 19.5061 mL | 39.0122 mL |
| 5 mM | 0.7802 mL | 3.9012 mL | 7.8024 mL |
| 10 mM | 0.3901 mL | 1.9506 mL | 3.9012 mL |
| 50 mM | 0.078 mL | 0.3901 mL | 0.7802 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

Structural Insights into Mdn1, an Essential AAA Protein Required for Ribosome Biogenesis.

Kawashima S , Chen Z , Aoi Y , et al. Potent, Reversible, and Specific Chemical Inhibitors of Eukaryotic Ribosome Biogenesis[J]. Cell, 2016:S0092867416311680.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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