

BOLD-100 free base

Chemical Properties

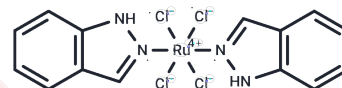
CAS No. : 783324-98-1

Formula: C₁₄H₁₂Cl₄N₄Ru

Molecular Weight: 479.15

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 | BOLD-100 free base (NKP-1339; IT-139), a ruthenium-based anticancer agent, inhibits stress-induced GRP78 upregulation, thus disrupting endoplasmic reticulum (ER) homeostasis. This action induces ER stress and unfolded protein response (UPR), interfering with the intricate relationship between ER-stress response, lysosome dynamics, and autophagy execution. |
| Targets(IC50) | Others,HSP,Autophagy |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.087 mL | 10.4351 mL | 20.8703 mL |
| 5 mM | 0.4174 mL | 2.087 mL | 4.1741 mL |
| 10 mM | 0.2087 mL | 1.0435 mL | 2.087 mL |
| 50 mM | 0.0417 mL | 0.2087 mL | 0.4174 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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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481