

NL13

Chemical Properties

CAS No. :

Formula: C₂₂H₁₉Cl₂N₂O₂

Molecular Weight: 400.3

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

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|----------------------------|--|
| Description | NL13, a Polo-like kinase 4 (PLK4) inhibitor, exhibits an IC ₅₀ value of 2.32 μM. It demonstrates the ability to suppress the viability of PC3 and DU145 prostate cancer cells with respective IC ₅₀ values of 3.51 μM and 2.53 μM. NL13 also inhibits tumor growth in prostate cancer mice. Additionally, it deactivates the AKT signaling pathway by reducing CCNB1/CDK1 levels, leading to G2/M cell cycle arrest and initiating apoptosis through caspase-9/caspase-3 cleavage. |
| Targets(IC ₅₀) | Apoptosis,Akt,Caspase,CDK,PLK |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.4981 mL | 12.4906 mL | 24.9813 mL |
| 5 mM | 0.4996 mL | 2.4981 mL | 4.9963 mL |
| 10 mM | 0.2498 mL | 1.2491 mL | 2.4981 mL |
| 50 mM | 0.050 mL | 0.2498 mL | 0.4996 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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