

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

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 G ₂ /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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