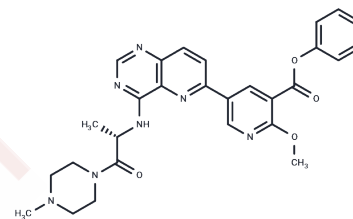


## PI3Kδ-IN-24

## Chemical Properties

CAS No. :	3051829-20-7
Formula:	C28H29N7O4
Molecular Weight:	527.57
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	PI3Kδ-IN-24 is a selective inhibitor of PI3Kδ with an IC50 value of 0.1 nM. It exhibits significant antiproliferative effects on cancer cell lines that overexpress PI3Kδ. PI3Kδ-IN-24 reduces p-AKT levels and induces cell cycle arrest and apoptosis in tumor cells. This compound is applicable for cancer research, particularly in diffuse large B-cell lymphoma (DLBCL).
Targets(IC50)	Apoptosis,Akt,PI3K
In vitro	PI3Kδ-IN-24 (Compound M7) exerts inhibitory effects on the growth of SU-DHL-6 and Pfeiffer cells with GI50 values of 0.012 μM and 0.068 μM, respectively. It shows weaker antiproliferative activity against HCT-116, MCF-7, and Raji cells with GI50 values of 1.20 μM, 2.56 μM, and 6.83 μM, respectively. At concentrations ranging from 10-1000 nM over 24 hours, PI3Kδ-IN-24 consistently inhibits AKT phosphorylation in SU-DHL-6 cells. Additionally, a 0.5-hour treatment with 10 μM of PI3Kδ-IN-24 enhances the thermal stability of endogenous PI3Kδ in SU-DHL-6 cells. When administered at 0.01-1 μM for 24-72 hours, PI3Kδ-IN-24 induces cell cycle arrest in the G0/G1 phase and apoptosis in SU-DHL-6 cells, without causing apoptosis in HEK293 cells.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8955 mL	9.4774 mL	18.9548 mL
5 mM	0.3791 mL	1.8955 mL	3.791 mL
10 mM	0.1895 mL	0.9477 mL	1.8955 mL
50 mM	0.0379 mL	0.1895 mL	0.3791 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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