

SKLB-0124

## Chemical Properties

CAS No. :	3065966-31-3
Formula:	C32H45N5O2
Molecular Weight:	531.75
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	SKLB-0124 is a potent degrader of PRMT6, exhibiting DC50 values of 15.4 $\mu\text{M}$ in HCC827 cells and 16.4 $\mu\text{M}$ in MDA-MB-435 cells. It does not degrade PRMT1 or PRMT8. SKLB-0124 has an IC50 value of 1.6 $\mu\text{M}$ for PRMT6. It induces proteasome-dependent degradation of PRMT6 and significantly inhibits cell proliferation. Additionally, SKLB-0124 effectively induces apoptosis and cell cycle arrest, making it suitable for research in lung cancer and breast cancer.
Targets(IC50)	Apoptosis,Histone Methyltransferase
In vitro	SKLB-0124 demonstrates non-acute degradation kinetics by degrading PRMT6 at an appropriate rate via the ubiquitin-proteasome system (UPS) pathway in MDA-MB-435 and HCC827 cells (1.25-20 $\mu\text{M}$ , 0.5-7 d), without inducing a hook effect. It inhibits cell proliferation, with IC50 values of 6.66 $\mu\text{M}$ and 5.68 $\mu\text{M}$ for HCC827 and MDA-MB-435 cells, respectively, when used at concentrations of 0-10 $\mu\text{M}$ for 6 days. At concentrations of 10-20 $\mu\text{M}$ for 3 days, SKLB-0124 causes G0/G1 phase arrest in MDA-MB-435 and HCC827 cells in a concentration-dependent manner. Additionally, SKLB-0124 exhibits low toxicity towards normal HEK293 and HEK293T cells at concentrations ranging from 15-90 $\mu\text{M}$ over 9 days.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8806 mL	9.4029 mL	18.8058 mL
5 mM	0.3761 mL	1.8806 mL	3.7612 mL
10 mM	0.1881 mL	0.9403 mL	1.8806 mL
50 mM	0.0376 mL	0.1881 mL	0.3761 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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