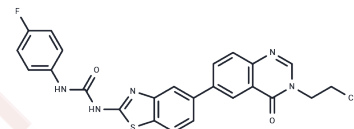


ALK/PI3K/AKT-IN-1

Chemical Properties

CAS No. :	3050831-84-7
Formula:	C ₂₅ H ₂₀ FN ₅ O ₂ S
Molecular Weight:	473.522
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	ALK/PI3K/AKT-IN-1 (Compound 45) effectively inhibits the proliferation of cancer cell lines A549, H1975, and PC9, with IC ₅₀ values of 0.44, 0.83, and 1.51 μM, respectively. This compound enhances the expression of p21 and p27, and decreases the activity of CDK2 and p-Rb, causing cell cycle arrest at the G1 phase. It suppresses the ALK/PI3K/AKT signaling pathway, promotes mitochondrial membrane potential depolarization, and induces apoptosis in A549 cells. Furthermore, ALK/PI3K/AKT-IN-1 inhibits the formation and growth of A549 cell spheres.
Targets(IC ₅₀)	Apoptosis,Akt,Mitochondrial Metabolism,CDK,ALK,PI3K

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1118 mL	10.5592 mL	21.1184 mL
5 mM	0.4224 mL	2.1118 mL	4.2237 mL
10 mM	0.2112 mL	1.0559 mL	2.1118 mL
50 mM	0.0422 mL	0.2112 mL	0.4224 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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