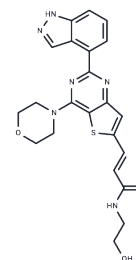


PI3K-IN-58

Chemical Properties

CAS No. : 3067572-78-2
 Formula: C₂₂H₂₂N₆O₃S
 Molecular Weight: 450.51
 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	PI3K-IN-58 (Compound 17f) is an inhibitor of PI3K α with an IC ₅₀ value of 0.039 μ M. It shows significant antiproliferative effects on PC-3, 22RV1, MDA-MB-231, and MDA-MB-453 cell lines with IC ₅₀ values of 3.48 μ M, 1.06 μ M, 2.21 μ M, and 0.93 μ M, respectively. PI3K-IN-58 induces apoptosis by downregulating the expression of anti-apoptotic proteins Bcl-XL and Bcl-2 while upregulating the expression of the pro-apoptotic protein BAX. This compound is applicable for research in cancer targeting through PI3K pathways.
Targets(IC ₅₀)	Apoptosis, Bcl-2 Family, PI3K

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2197 mL	11.0985 mL	22.1971 mL
5 mM	0.4439 mL	2.2197 mL	4.4394 mL
10 mM	0.222 mL	1.1099 mL	2.2197 mL
50 mM	0.0444 mL	0.222 mL	0.4439 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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