

XJTU-L453

Chemical Properties

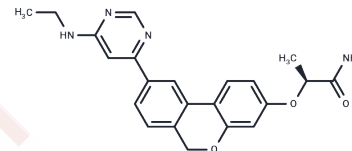
CAS No. : 3008290-92-1

Formula: C₂₂H₂₂N₄O₃

Molecular Weight: 390.44

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	XJTU-L453, a PI3K α inhibitor, exhibits an IC ₅₀ of 0.4 nM. It inhibits the proliferation of breast cancer cell lines T47D and MCF7, with IC ₅₀ values of 0.2 μ M and 0.5 μ M respectively. Additionally, XJTU-L453 disrupts the PI3K pathway, leading to cell cycle arrest and cell apoptosis (apoptosis). It also demonstrates antitumor activity in MCF7 xenograft mice.
Targets(IC ₅₀)	Apoptosis,PI3K

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5612 mL	12.8061 mL	25.6121 mL
5 mM	0.5122 mL	2.5612 mL	5.1224 mL
10 mM	0.2561 mL	1.2806 mL	2.5612 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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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