

pro-FTY

Chemical Properties

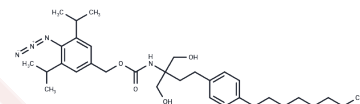
CAS No. : 3064707-13-4

Formula: C33H50N4O4

Molecular Weight: 566.77

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	pro-FTY is an anticancer prodrug of FTY720 and acts as a sphingosine-1-phosphate (S1P) inhibitor. It specifically inhibits S1P signaling in cancer cells via a drug delivery system (DDS) that reacts with acrolein. pro-FTY significantly reduces the survival of breast cancer cells, including multidrug-resistant cells and organoids resistant to Paclitaxel or Doxorubicin. Additionally, pro-FTY effectively suppresses tumor growth in xenograft mouse models of 4T1 cells or organoids while avoiding lymphopenia.
Targets(IC50)	STAT,LPL Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7644 mL	8.8219 mL	17.6438 mL
5 mM	0.3529 mL	1.7644 mL	3.5288 mL
10 mM	0.1764 mL	0.8822 mL	1.7644 mL
50 mM	0.0353 mL	0.1764 mL	0.3529 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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