

PTK7/ β -catenin-IN-6

Chemical Properties

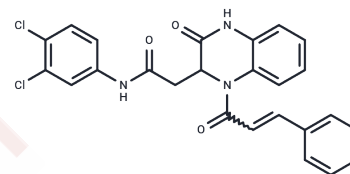
CAS No. : 1219439-82-3

Formula: C₂₅H₁₉Cl₂N₃O₃

Molecular Weight: 480.34

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	PTK7/ β -catenin-IN-6 (Compound 03653) acts as an inhibitor of the PTK7/ β -catenin interaction, thereby disrupting the Wnt signaling pathway. It has demonstrated anticancer effects specifically targeting colorectal cancer (CRC) [1].
Targets(IC50)	Wnt/beta-catenin
In vitro	PTK7/ β -catenin-IN-6 (25 μ M) modulates the expression of genes associated with Wnt signaling pathways linked to cell proliferation and migration, inhibits β -catenin's transcriptional activity, and suppresses the Wnt signaling cascade [1]. At concentrations ranging from 0-100 μ M, PTK7/ β -catenin-IN-6 induces a G0/G1 cell cycle arrest by inhibiting the production of CyclinA2, CyclinE2, and CDK, consequently reducing the proliferation of HCT116, SW480, and MEF cells, with IC50 values of 20.1, 19.6, and 46.3 μ M, respectively [1]. In a cell proliferation assay, incubation of HCT116, SW480, and MEF cells with 0-100 μ M of PTK7/ β -catenin-IN-6 for 24 hours resulted in decreased cellular proliferation [1]. Western blot analysis of HCT116 and SW480 cells exposed to 0-100 μ M of the compound for 24 hours showed reduced levels of CyclinA2, CyclinE2, and CDK [1]. RT-PCR conducted on HCT116 and SW480 cells with 25 μ M concentration for 24 hours revealed increased mRNA levels of PLAUR, FOSL1, and NRP1, while AXIN2 mRNA levels decreased [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0819 mL	10.4093 mL	20.8186 mL
5 mM	0.4164 mL	2.0819 mL	4.1637 mL
10 mM	0.2082 mL	1.0409 mL	2.0819 mL
50 mM	0.0416 mL	0.2082 mL	0.4164 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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