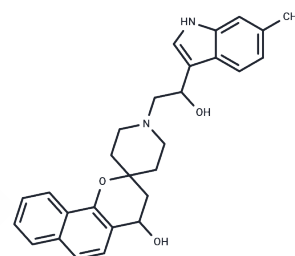


JBC117

Chemical Properties

CAS No. : 1214531-21-1
 Formula: C₂₈H₃₀N₂O₃
 Molecular Weight: 442.55
 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	JBC117, a novel anticancer lead compound targeting Pygo2 PHD, effectively antagonizes β -catenin-dependent cell activity, inhibits cancer cell migration and invasion, and induces apoptosis [1].
Targets(IC50)	Apoptosis
In vitro	JBC117 at a concentration of 20 μ M over 24 hours inhibits the growth of colon cancer (HCT116) and lung cancer (A549) cells, with IC50 values of 2.6 and 3.3 μ M respectively [1]. Western Blot Analysis on HCT116 and A549 cell lines treated with 5, 10, and 20 μ M for 72 hours demonstrates downregulation of Wnt downstream target genes, including Axin2, c-myc, and cyclin D1. Furthermore, in Cell Invasion Assays, HCT116 and A549 cells treated with 20 μ M for 24 hours showed dose-dependent reductions in migration and invasion capabilities.
In vivo	JBC117, administered at 20 mg/kg per day subcutaneously for 14 consecutive days, demonstrates antitumor activity in mouse xenograft models of colon and lung cancer [1]. Results showed a reduction in tumor growth by 65% in colon cancer and 93% in lung cancer, with increased apoptosis observed in tumor sections.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2596 mL	11.2982 mL	22.5963 mL
5 mM	0.4519 mL	2.2596 mL	4.5193 mL
10 mM	0.226 mL	1.1298 mL	2.2596 mL
50 mM	0.0452 mL	0.226 mL	0.4519 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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