

Evo312

Chemical Properties

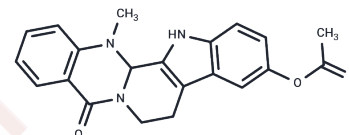
CAS No. : 2820245-53-0

Formula: C₂₁H₁₉N₃O₃

Molecular Weight: 361.39

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	Evo312 is an inhibitor of protein kinase C beta I (PKCβI) with an IC ₅₀ of 117.34 nM and exhibits dose-dependent characteristics. It acts by inhibiting the expression of the PKCβI protein, which leads to cell cycle arrest and apoptosis in PANC-GR (gemcitabine-resistant pancreatic cancer cells). Evo312 also demonstrates antiproliferative effects in pancreatic cancer cells PANC-1 and PANC-GR, with IC ₅₀ values of 0.08 μM and 0.07 μM respectively, while presenting an IC ₅₀ of 2.95 μM in normal human pancreatic ductal epithelial cells HPDE6-c7. Additionally, Evo312 has shown antitumor activity in a mouse xenograft model using PANC-GR cells.
Targets(IC ₅₀)	Apoptosis,PKC
In vitro	Evo312, when applied at concentrations ranging from 0-160 nM for 24 hours, inhibits the expression of PKCβ1 protein and the phosphorylation of downstream target proteins in PANC-GR cells. Additionally, Evo312 at the same concentration and duration induces G2/M cell cycle arrest and inhibits mitosis in PANC-GR cells. Furthermore, when administered at the same concentration for 48 hours, Evo312 induces apoptosis in PANC-GR cells.
In vivo	Evo312 (5 mg/kg, i.p., three times a week, 20 days) inhibits tumor growth in a xenograft mouse model of PANC-GR (gemcitabine-resistant cells) by downregulating PKCβI. The effect of gemcitabine treatment on tumor growth was negligible.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7671 mL	13.8355 mL	27.6709 mL
5 mM	0.5534 mL	2.7671 mL	5.5342 mL
10 mM	0.2767 mL	1.3835 mL	2.7671 mL
50 mM	0.0553 mL	0.2767 mL	0.5534 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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