

GSD-11

Chemical Properties

CAS No. :

Formula: C₂₀H₂₈O₂

Molecular Weight: 300.44

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	GSD-11 inhibits the Akt/mTOR signaling pathway. GSD-11 inhibits the PANC-1 cells migration and colony formation. GSD-11 is a potent and selective anti-austerity agent that has the potential for the pancreatic cancer research [1].
Targets(IC50)	Others,Akt
In vitro	GSD-11, at varying concentrations (0.1, 10, 100, 1000 μ M), demonstrates significant cytotoxic effects on PANC-1 cells, with a PC50 value of 0.72 μ M in nutrient-deprived medium (NDM) and an IC50 value of 3.5 μ M in Dulbecco's modified Eagle's medium (DMEM) [1]. At a concentration of 10 μ M over 24 hours, GSD-11 induces morphological changes in PANC-1 cells, inhibits cell migration at concentrations of 3 and 5 μ M, and shows a potent colony formation inhibitory effect at 1, 3, and 5 μ M [1]. Furthermore, GSD-11 restricts the survival of PANC-1 cells at 2.5, 5, and 10 μ M by targeting the Akt/mTOR pathway under NDM conditions [1]. This is supported by cell cytotoxicity assays indicating a preference for cytotoxicity against PANC-1 cells in NDM over DMEM, and Western blot analysis confirms the mechanism of survival inhibition through the Akt/mTOR pathway [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3285 mL	16.6423 mL	33.2845 mL
5 mM	0.6657 mL	3.3285 mL	6.6569 mL
10 mM	0.3328 mL	1.6642 mL	3.3285 mL
50 mM	0.0666 mL	0.3328 mL	0.6657 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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