

Hedgehog IN-7

Chemical Properties

CAS No. :

Formula: C₂₇H₂₇FN₈

Molecular Weight: 482.56

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	HedgehogIN-7 (Compound 8g), a purine derivative, acts as an inhibitor of the Hedgehog signaling pathway by reducing the expression of Hedgehog genes and inhibiting signal transmission. This compound exhibits significant cytotoxicity and selectivity towards Mia-PaCa-2 pancreatic cancer cells that are dependent on the Hedgehog pathway, making it useful for research in pancreatic cancer.
Targets(IC50)	Hedgehog/Smoothened
In vitro	Hedgehog IN-7 (Compound 8g) exhibits cytotoxicity against MIA-PaCa-2 cells (IC 50 = 4.11 μM) and is non-toxic to HEK293 cells (IC 50 > 50 μM). Additionally, Hedgehog IN-7 (48 h) inhibits Hedgehog signaling in NIH3T3 SHH-Light II cells with an IC 50 of 6.4 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0723 mL	10.3614 mL	20.7228 mL
5 mM	0.4145 mL	2.0723 mL	4.1446 mL
10 mM	0.2072 mL	1.0361 mL	2.0723 mL
50 mM	0.0414 mL	0.2072 mL	0.4145 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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