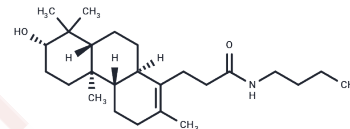


Hedgehog IN-6

Chemical Properties

CAS No. :	2916444-33-0
Formula:	C ₂₅ H ₄₃ NO ₂
Molecular Weight:	389.61
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-6 (Compound Q29) is a Hedgehog (Hh) inhibitor utilized in cancer research. It inhibits the hedgehog (Hh) pathway by binding to the cysteine-rich domain (CRD) of Smoothened (Smo) and blocking its cholesterol modification.
Targets(IC50)	Hedgehog/Smoothened,Smo
In vitro	Q29 (1-10 μM; 24 hours) inhibits GLI1 protein expression activated by Shh-N in a dose-dependent manner. Q29 (1-10 μM; 24 + 12 hours) also suppresses Hh signal-dependent cell proliferation in a dose-dependent way. Under varying concentrations of Shh-N, Q29 inhibits Gli-luciferase activity, with an IC50 of 1.33 μM.
In vivo	When administered orally via gavage at a dose of Q29 (90 mg/kg; twice daily for 13 days), it effectively inhibits tumor growth in Ptch1+/P53/ mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5667 mL	12.8333 mL	25.6667 mL
5 mM	0.5133 mL	2.5667 mL	5.1333 mL
10 mM	0.2567 mL	1.2833 mL	2.5667 mL
50 mM	0.0513 mL	0.2567 mL	0.5133 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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