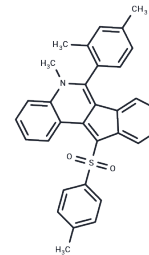


SIQ17

Chemical Properties

CAS No. :	2151881-74-0
Formula:	C ₃₂ H ₂₇ N ₂ O ₂ S
Molecular Weight:	489.63
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	SIQ17, an EGFR inhibitor, blocks the ATP-binding site with an IC ₅₀ of 0.62 nM, demonstrating more effective EGFR-TK inhibitory activity than the known inhibitor Erlotinib (IC ₅₀ of 20 nM). SIQ17 is applicable in cancer research [1].
Targets(IC ₅₀)	EGFR
In vitro	SIQ17 demonstrates a stronger inhibitory effect on the viability of A431 cells compared to A549 cells at a concentration of 10 μM over 72 hours [1]. This compound exhibits cytotoxic effects in a concentration-dependent manner, with IC ₅₀ values of 32.98 μM for A549 cells and 19.17 μM for A431 cells after 24 hours of exposure [1]. Furthermore, cell viability assays conducted at 10 μM for 72 hours confirm the greater inhibition on A431 cells relative to A549. Additionally, cytotoxicity assays involving A549, A431, and Vero cell lines at concentrations ranging from 0-100 μM over 24 hours consistently show the compound's cytotoxic nature, with specific IC ₅₀ values reported as 32.98 μM and 19.17 μM for A549 and A431, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0424 mL	10.2118 mL	20.4236 mL
5 mM	0.4085 mL	2.0424 mL	4.0847 mL
10 mM	0.2042 mL	1.0212 mL	2.0424 mL
50 mM	0.0408 mL	0.2042 mL	0.4085 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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