

SIRT6-IN-3

Chemical Properties

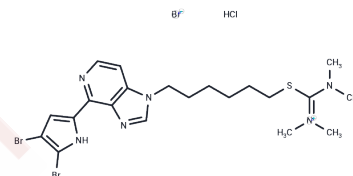
CAS No. : 3023471-40-8

Formula: C₂₁H₃₀Br₃ClN₆S

Molecular Weight: 673.73

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	SIRT6-IN-3 (compound 8a), a selective SIRT6 inhibitor (IC ₅₀ = 7.49 μM), impedes the proliferation of pancreatic ductal adenocarcinoma (PDAC) cells and prompts apoptosis. It enhances the responsiveness of cancer cells to gemcitabine by obstructing the DNA damage repair pathway, thus serving as a valuable tool in pancreatic cancer research [1].
Targets(IC ₅₀)	Sirtuin
In vitro	SIRT6-IN-3 at a concentration of 25 μM induces a cell cycle arrest and apoptosis in PDAC cells after 48 hours of treatment [1]. When applied for 72 hours, SIRT6-IN-3 continues to hinder the proliferation of pancreatic cancer cells by inhibiting cellular signaling pathways [1].
In vivo	SIRT6-IN-3 exhibits antitumor effects in a murine tumor model [1]. When used in combination with gemcitabine (at a ratio of 2:1), SIRT6-IN-3 enhances the anticancer activity of gemcitabine [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4843 mL	7.4214 mL	14.8427 mL
5 mM	0.2969 mL	1.4843 mL	2.9685 mL
10 mM	0.1484 mL	0.7421 mL	1.4843 mL
50 mM	0.0297 mL	0.1484 mL	0.2969 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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