

Antitumor agent-86

Chemical Properties

CAS No. :	2907704-65-6
Formula:	C ₂₉ H ₃₁ N ₅ O ₂ S
Molecular Weight:	513.65
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	Antitumor agent-86 (compound 5a) demonstrates efficacy against MCF-7 breast cancer cells with an inhibitory concentration (IC ₅₀) of 2.62 μM, promoting apoptosis and cell cycle arrest by disrupting the RAS/PI3K/Akt/JNK signaling pathways [1].
Targets(IC ₅₀)	Akt,PI3K
In vitro	Antitumor agent-86, administered at concentrations ranging from 0-200 μM for 48 hours, dose-dependently suppresses proliferation in MCF-7, MDA-MB-231, Caco-2, and PANC-1 cancer cell lines, with respective IC ₅₀ values of 2.617, 6.778, 14.8, and 23.58 μM [1]. At a concentration of 2.62 μM over 48 hours, it induces apoptosis, cell cycle arrest, reduces levels of p-RAS protein in MCF-7 cells, decreases mRNA transcription levels of PI3K and Akt, and lowers the expression of p-JNK protein [1]. Furthermore, Antitumor agent-86 upregulates the expression of the p21 gene at the same concentration and duration [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9469 mL	9.7343 mL	19.4685 mL
5 mM	0.3894 mL	1.9469 mL	3.8937 mL
10 mM	0.1947 mL	0.9734 mL	1.9469 mL
50 mM	0.0389 mL	0.1947 mL	0.3894 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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