

PPIA-IN-1

Chemical Properties

CAS No. :

Formula: C₂₃H₂₁Cl₂FN₄O₇

Molecular Weight: 555.34

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	PPIA-IN-1 (Compound 20b) is an inhibitor of peptidyl-prolyl isomerase A (PPIA) with a KD of 0.52 μ M. It demonstrates antiproliferative activity across various cancer cell lines, including an IC ₅₀ of 0.69 μ M in HCT116 cells, induces cell cycle arrest at the G ₀ /G ₁ phase, and exhibits antimetastatic effects in HCT116 cells. PPIA-IN-1 elevates ROS levels, causing DNA damage, ER stress, and mitochondrial dysfunction, and induces apoptosis in HCT116 cells via the MAPK pathway. Additionally, PPIA-IN-1 shows antitumor activity in a CT26 xenograft mouse model.
Targets(IC ₅₀)	Apoptosis, Reactive Oxygen Species, p38 MAPK, ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8007 mL	9.0035 mL	18.007 mL
5 mM	0.3601 mL	1.8007 mL	3.6014 mL
10 mM	0.1801 mL	0.9003 mL	1.8007 mL
50 mM	0.036 mL	0.1801 mL	0.3601 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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