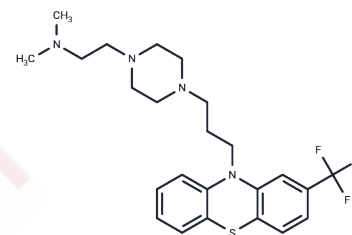


ZZW-115

Chemical Properties

CAS No. : 801991-87-7
 Formula: C₂₄H₃₁F₃N₄S
 Molecular Weight: 464.59
 Storage: Store at low temperature
 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	ZZW-115 is a potent NUPR1 inhibitor with a K _d of 2.1 μM and is a derivative of Trifluoperazine (TFP). It shows dose-dependent tumor regression without neurological side effects and induces cell death mainly by necroptosis and apoptosis[1] [2].
Targets(IC50)	Apoptosis,Others
In vitro	ZZW-115, at concentrations ranging from 0.1 to 100 μM and incubation periods between 24 and 72 hours, demonstrates significant anticancer efficacy by effectively killing a variety of cancer cells. It exhibits IC ₅₀ values from as low as 0.42 μM in Hep2G cells to 7.75 μM in SaOS-2 cells, indicating its potency across different cell lines including ANOR, HN14, and others [1]. Moreover, ZZW-115 prompts cancer cell death through both necrosis and apoptosis mechanisms, highlighted by increased lactate dehydrogenase (LDH) release and caspase 3/7 activity in treated cells compared to controls. This is further supported by a decrease in ATP production and an overproduction of reactive oxygen species (ROS), showcasing its dual pro-necrotic and pro-apoptotic actions [1].
In vivo	Administering ZZW-115 via injection at doses ranging from 0.5 to 5 mg/kg daily for 30 days inhibited growth in pancreatic xenografted tumors in NMRI-Foxn1nu/Foxn1nu (nude) mice implanted with MiaPaCa-2 cells. At a dosage of 5 mg/kg, ZZW-115 treatment in immunocompetent C57BL/6 mice orthotopically implanted with Panc02 cells resulted in a significant reduction of tumor size, rendering it almost unmeasurable in some instances. Notably, tumors ceased to grow a few days post-administration of 5 mg/kg ZZW-115 and exhibited a progressive decrease in size, nearing complete disappearance by the treatment's conclusion.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1524 mL	10.7622 mL	21.5244 mL
5 mM	0.4305 mL	2.1524 mL	4.3049 mL
10 mM	0.2152 mL	1.0762 mL	2.1524 mL
50 mM	0.043 mL	0.2152 mL	0.4305 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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