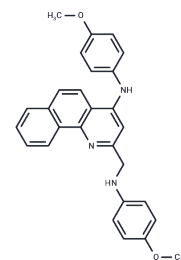


SDU-071

Chemical Properties

CAS No. :	3036109-10-8
Formula:	C ₂₈ H ₂₅ N ₃ O ₂
Molecular Weight:	435.52
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	SDU-071 is an orally active BRD4-p53 inhibitor, inhibiting the proliferation of MDA-MB-231 cells, blocking the interaction between BRD4 and the tumor suppressor p53, downregulating the expression of BRD4-targeted genes, thereby inhibiting cell proliferation, migration, and invasion, and inducing cell cycle arrest and apoptosis. SDU-071 is used for research on triple-negative breast cancer.
Targets(IC50)	Apoptosis, Epigenetic Reader Domain
In vitro	SDU-071 is a novel BRD4-p53 inhibitor. SDU-071 (10 μM, 24 h) inhibits the interaction of BRD4 with p53 tumor suppressor. [1]
In vivo	In an orthotopic mouse xenograft breast tumor model, SDU-071 (250 mg/kg, gavage, Once a day for 21 days) showed good antitumor activity. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (183.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.18 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2961 mL	11.4805 mL	22.9611 mL
5 mM	0.4592 mL	2.2961 mL	4.5922 mL
10 mM	0.2296 mL	1.1481 mL	2.2961 mL
50 mM	0.0459 mL	0.2296 mL	0.4592 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.

Reference

Wang S, et al. Novel BRD4-p53 Inhibitor SDU-071 Suppresses Proliferation and Migration of MDA-MB-231 Triple-Negative Breast Cancer Cells. ACS Pharmacol Transl Sci. 2024 Mar 12;7(4):1178-1190.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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