

DC_517

Chemical Properties

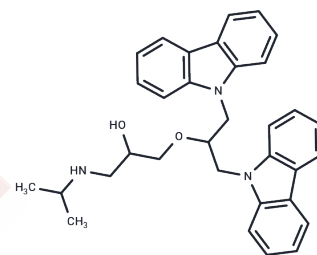
CAS No. : 500017-70-9

Formula: C33H35N3O2

Molecular Weight: 505.65

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	DC_517 is an inhibitor of DNA methyltransferase 1 (DNMT1) (IC50: 1.7 μ M; Kd: 0.91 μ M).
Targets(IC50)	DNA Methyltransferase
In vitro	DC_517 (0, 0.75, 1.5, and 3 μ M) also dose-dependently induces apoptotic cell death in HCT116 cells. DC_517 (1.25, 2.5, 5, and 10 μ M) effectively inhibits Capan-1 (human pancreatic adenocarcinoma cells) and the proliferation of HCT116 (human colon cancer) after treatment for 24, 48, and 72 h.

Solubility Information

Solubility	DMSO: 50 mg/mL (98.88 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: 3.3 mg/mL (6.53 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	1.9777 mL	9.8883 mL	19.7765 mL
5 mM	0.3955 mL	1.9777 mL	3.9553 mL
10 mM	0.1978 mL	0.9888 mL	1.9777 mL
50 mM	0.0396 mL	0.1978 mL	0.3955 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

Chen S, et al. Identifying novel selective non-nucleoside DNA methyltransferase 1 inhibitors through docking-based virtual screening. J Med Chem. 2014 Nov 13;57(21):9028-9041.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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