

DC661

Chemical Properties

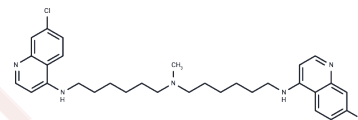
CAS No. : 1872387-43-3

Formula: C₃₁H₃₉Cl₂N₅

Molecular Weight: 552.58

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	DC661 is a palmitoyl-protein thioesterase 1 (PPT1) inhibitor that acts as an anti-lysosomal agent by inhibiting autophagy, demonstrating anti-cancer activity.
Targets(IC50)	Apoptosis, Autophagy

Solubility Information

Solubility	DMSO: 62.5 mg/mL (113.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (4.52 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	1.8097 mL	9.0485 mL	18.0969 mL
5 mM	0.3619 mL	1.8097 mL	3.6194 mL
10 mM	0.181 mL	0.9048 mL	1.8097 mL
50 mM	0.0362 mL	0.181 mL	0.3619 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

Rebecca VW, et al. PPT1 Promotes Tumor Growth and Is the Molecular Target of Chloroquine Derivatives in Cancer. *Cancer Discov.* 2019 Feb;9(2):220-229.

Xu J, Su Z, Cheng X, et al. High PPT1 expression predicts poor clinical outcome and PPT1 inhibitor DC661 enhances sorafenib sensitivity in hepatocellular carcinoma. *Cancer Cell International.* 2022, 22(1): 1-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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