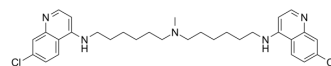


## DC661

Cat. No.:	HY-111621		
CAS No.:	1872387-43-3		
Molecular Formula:	C <sub>31</sub> H <sub>39</sub> Cl <sub>2</sub> N <sub>5</sub>		
Molecular Weight:	552.58		
Target:	Autophagy; Autophagy; Apoptosis		
Pathway:	Autophagy; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (113.11 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.8097 mL	9.0485 mL	18.0969 mL
				5 mM	0.3619 mL	1.8097 mL	3.6194 mL
10 mM				0.1810 mL	0.9048 mL	1.8097 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	DC661 is a potent palmitoyl-protein thioesterase 1 (PPT1) inhibitor, inhibits autophagy, and acts as an anti-lysosomal agent. Anti-cancer activity <sup>[1]</sup> .
IC <sub>50</sub> & Target	PPT1, autophagy <sup>[1]</sup>
In Vitro	DC661 (0.1 and 10 μM) accumulates autophagic vesicles in melanoma cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Nat Biotechnol. 2022 Dec;40(12):1834-1844.
  - J Immunother Cancer. 2023 Jun;11(6):e006655.
  - Biosci Rep. 2023 Apr 27;BSR20230067.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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