

CP5V

Chemical Properties

CAS No. : 2509359-75-3

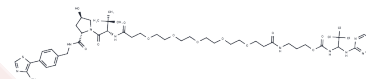
Formula: C₄₆H₆₆Cl₃N₉O₁₂S

Molecular Weight: 1075.50

Keep away from direct sunlight

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	CP5V is a rationally designed PROTAC molecule composed of ligands for von Hippel-Lindau and cyclin-dependent kinase, which selectively induces degradation of Cdc20 by tethering it to the VHL/VBC E3 ligase complex, leading to ubiquitination and proteasomal degradation, mitotic arrest, and suppression of cancer cell proliferation, thereby serving as a mechanistic tool for cell cycle and oncology research.
Targets(IC50)	APC/C, PROTACs
In vitro	In breast cancer studies utilizing MCF7 and MDA-MB-231 cell lines, CP5V demonstrated degradation efficiency of Cdc20 with a DC50 of approximately 1.6 μ M. Functionally, this targeted depletion of Cdc20 resulted in the inhibition of cancer cell proliferation and resensitized paclitaxel-resistant cell lines to chemotherapy [1].

Solubility Information

Solubility	DMSO: 120.00 mg/mL (111.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9298 mL	4.649 mL	9.298 mL
5 mM	0.186 mL	0.9298 mL	1.8596 mL
10 mM	0.093 mL	0.4649 mL	0.9298 mL
50 mM	0.0186 mL	0.093 mL	0.186 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

Chi JJ, et al. A novel strategy to block mitotic progression for targeted therapy. EBioMedicine. 2019 Oct 25. pii: S2352-3964(19)30677-2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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