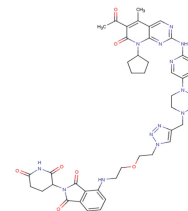


CP-10

Chemical Properties

CAS No.:	2366268-80-4
Formula:	C44H49N13O7
Molecular Weight:	871.94
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CP-10 is a PROTAC with highly selective and remarkable CDK6 degradation (DC50: 2.1 nM). It inhibits the proliferation of several hematopoietic cancer cells including multiple myeloma and can degrade mutated and overexpressed CDK6.
Targets(IC ₅₀)	CDK6: 2.1 nM (Dc50) Cereblon: None
In vitro	In human glioblastoma U251 cells, CP-10 induces nearly 72% degradation of CDK6 at 10 nM and 89% at 100 nM. The degradation of CDK4 induced by CP-10 is far weaker than that of CDK6 (DC50: 50-80 fold). CP-10 displays a cell inhibition potential in mantle cell lymphoma cells (in Mino, IC ₅₀ ≈8 nM) and multiple myeloma cell MM.1S (IC ₅₀ ≈10 nM).

Solubility Information

Solubility	DMSO: 200 mg/mL (229.37 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.147 mL	5.734 mL	11.469 mL
5 mM	0.229 mL	1.147 mL	2.294 mL
10 mM	0.115 mL	0.573 mL	1.147 mL
50 mM	0.023 mL	0.115 mL	0.229 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Su S, et al. Potent and Preferential Degradation of CDK6 via Proteolysis Targeting Chimera Degraders. J Med Chem. 2019 Aug 2.

Inhibitors · Natural Compounds · Compound Libraries

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