PROTAC CDK9 Degrader-1

Cat. No.: HY-103628

CAS No.: 2118356-96-8

Molecular Formula: $C_{33}H_{35}N_5O_7$

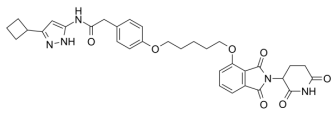
Molecular Weight: 613.66

Target: PROTACs; CDK

Pathway: PROTAC; Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 104 mg/mL (169.47 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.6296 mL	8.1478 mL	16.2957 mL
5 mM	0.3259 mL	1.6296 mL	3.2591 mL
10 mM	0.1630 mL	0.8148 mL	1.6296 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC CDK9 Degrader-1 is a PROTAC connected by ligands for Cereblon and CDK as a selective CDK9 degrader.

IC_{50} & Target

CDK9

In Vitro

PROTAC CDK9 Degrader-1 (Compound 3; 2.5-20 μM; 6 hours) degrades CDK9 in a dose dependent manner in HCT116 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HCT116 cells
Concentration:	2.5, 5, 10, and 20μM
Incubation Time:	6 hours
Result:	Degraded CDK9 in a dose dependent manner.

REFERENCES

[1]. Robb CM, et al. Chemically induced degradation of CDK9 by a proteolysis targeting chimera (PROTAC). Chem Commun (Camb). 2017 Jul 4;53(54):7577-7580.

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