PROTAC CDK9 degrader-7

Cat. No.: HY-149964

CAS No.: 2935587-90-7

Molecular Formula: $C_{43}H_{50}Cl_2N_8O_9$

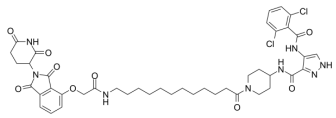
Molecular Weight: 893.81

Target: CDK

Pathway: 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 : 100 mg/mL (111.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1188 mL	5.5940 mL	11.1881 mL
	5 mM	0.2238 mL	1.1188 mL	2.2376 mL
	10 mM	0.1119 mL	0.5594 mL	1.1188 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: ≥ 2.5 mg/mL (2.80 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PROTAC CDK9 degrader-7 is a PROTAC targeting to CDK9 sepcifically. PROTAC CDK9 degrader-7 mediates CDK9 degradation via the proteasome[1].

In Vitro

PROTAC CDK9 degrader-7 (compound 15f) shows the great potency with an IC_{50} of 40 nM in the Molm-13 cells[1].

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

Western Blot Analysis[1]

Cell Line:	MV411 cells
Concentration:	0.01 μM, 0.05 μM, 0.1 μM, 0.5 μM, 1 μM, 5 μM
Incubation Time:	6 h

Result:	Significantly decreased the protein level of MCL2, and almostly and competely degraded CKD9 at low concentration as 0.1 μM.

REFERENCES

[1]. Tokarski RJ 2nd, et al. Bifunctional degraders of cyclin dependent kinase 9 (CDK9): Probing the relationship between linker length, properties, and selective protein degradation. Eur J Med Chem. 2023 Jun 5;254:115342.

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