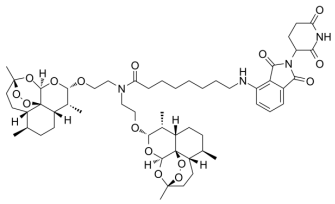
AD4

Cat. No.:	HY-149428
CAS No.:	2918262-09-4
Molecular Formula:	$C_{55}H_{78}N_4O_{15}$
Molecular Weight:	1035.23
Target:	PROTACs
Pathway:	PROTAC

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 (96.60 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.9660 mL	4.8298 mL	9.6597 mL
5 mM	0.1932 mL	0.9660 mL	1.9319 mL
10 mM	0.0966 mL	0.4830 mL	0.9660 mL

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

BIOLOGICAL ACTIVITY

Description

AD4 is an artemisinin derivative that is a proteolytic targeting chimera (PROTAC) targeting PCLAF. AD4 can effectively degrade PCLAF in RS4;11 cells (IC_{50}: 0.6 nM), thereby activating the p21/Rb axis and exerting anti-tumor activity. AD4 also prolonged survival of RS4;11-transplanted NOD/SCID mice, with in vivo efficacy[1].

IC_{50} & Target

IC50: 0.6 nM (PCLAF/KIAA0101)[1]

CUSTOMER VALIDATION

- Glia. 2023 Oct 23.

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REFERENCES

[1]. Li Y, et al. Facilitated Drug Repurposing with Artemisinin-Derived PROTACs: Unveiling PCLAF as a Therapeutic Target. J Med Chem. 2023 Aug 24;66(16):11335-11350..

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