

## CDK9-IN-28

## Chemical Properties

CAS No. :

Formula: C32H40N4O6S2

Molecular Weight: 640.81

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	PROTAC CDK9/CycT1 Degradar-1 (compounds 10), a potent CDK9 inhibitor and target protein ligand for PROTAC synthesis, exhibits substantial anti-proliferative activity in solid tumors [1], making it instrumental in the targeted degradation of CDK9/CycT1.
Targets(IC50)	CDK
In vitro	CDK9-IN-28 exhibits pronounced CDK9 degradation in U-2932 cells and demonstrates significant antiproliferative activity in tumors [1].
In vivo	CDK9-IN-28 at a dosage of 5 mg/kg, administered intraperitoneally once daily for 15 consecutive days, exhibited tumor growth inhibition in the MV4-11 xenograft model in nude mice [1]. Additionally, CDK9-IN-28 demonstrated an acceptable half-life (T1/2: 4.66h) and moderate bioavailability (F=43.1%) at dosages of 1 mg/kg via intravenous and 5 mg/kg via intraperitoneal injection in the ICR (CD-1) mouse model.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5605 mL	7.8026 mL	15.6052 mL
5 mM	0.3121 mL	1.5605 mL	3.121 mL
10 mM	0.1561 mL	0.7803 mL	1.5605 mL
50 mM	0.0312 mL	0.1561 mL	0.3121 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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