

PARP/EZH2-IN-2

Chemical Properties

CAS No. :

Formula: C33H31N7O3

Molecular Weight:

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	PARP/EZH2-IN-2 (compound 12e) functions as a dual inhibitor targeting both PARP1 and EZH2, with IC50 values of 6.89 and 27.34 nM, respectively. This compound exhibits anticancer activity without toxicity to normal cells, achieving synthetic lethality indirectly by increasing PARP1 sensitivity through EZH2 inhibition, and inducing cell death by modulating excessive autophagy.
Targets(IC50)	Histone Methyltransferase,PARP
In vitro	PARP/EZH2-IN-2 (compound 12e) exhibits optimal cytotoxicity with IC50 values of 2.84 μM against MDA-MB-231 cells and 0.91 μM against BT-549 cells, while showing no toxicity to normal breast cell lines.
In vivo	PARP/EZH2-IN-2 (compound 12e) demonstrates superior antitumor activity compared to Niraparib combined with GSK126 when administered via intraperitoneal injection at doses of 20-50 mg/kg.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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