

PROTAC PARP1 degrader-4

Chemical Properties

CAS No. :

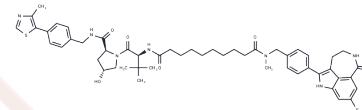
Formula: C₅₁H₆₂FN₇O₆S

Molecular Weight: 920.145

Keep away from direct sunlight

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 PARP1 degrader-4 (Compound 180055) is a selective PARP1 PROTAC degrader, demonstrating DC50 values of 180 nM and 240 nM in T47D and MDA-MB-231 cell lines, respectively. It facilitates the ubiquitination and degradation of PARP1 and inhibits its enzymatic activity without causing significant DNA trapping effects. Additionally, PROTAC PARP1 degrader-4 can inhibit tumors with BRCA gene mutations while having minimal impact on the growth of normal cells.
Targets(IC50)	PARP,PROTACs
In vitro	PROTAC PARP1 degrader-4 (1-10 μM, 24-48 h) shields T47D and MOLT4 cells from cell death induced by genotoxic stress [1]. Additionally, PROTAC PARP1 degrader-4 (10 μM, 3-6 days) induces cytotoxic effects in BRCA1-mutated MOLT4 cells [1].
In vivo	PROTAC PARP1 degrader-4 (40 mg/kg, intraperitoneal injection, 16 days) exhibits antitumor activity against MOLT4 xenograft mice with BRCA1 mutations [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0868 mL	5.4339 mL	10.8678 mL
5 mM	0.2174 mL	1.0868 mL	2.1736 mL
10 mM	0.1087 mL	0.5434 mL	1.0868 mL
50 mM	0.0217 mL	0.1087 mL	0.2174 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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