Product Datasheet

PROTAC PARP1 degrader

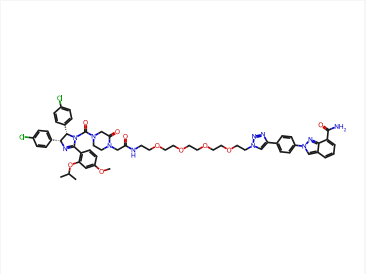
Catalog No. **BP-00330** · CAS **2369022-68-2** · Form **free base** · Physical state **other** · Color **white to off-white** · Version **1.0** · Revision **2026-11-04**

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Target	Research area
PROTACs; PARP; Apoptosis	**Cancer**

Molecular formula	$C_{58}H_{63}Cl_2N_{11}O_{10}$
Molecular weight	**1145.0950**

STRUCTURE



DESCRIPTION

PROTAC PARP1 degrader is a PARP1 degrader based on MDM2 E3 ligand. It induces significant PARP1 cleavage and programmed cell death. PROTAC PARP1 degrader at 10 μM at 24 h inhibits MDA-MB-231 cell line with an IC50 of 6.12 μM.

BIOLOGICAL ACTIVITY

PROTAC PARP1 degrader (10 μM; 24-48 h) potently inhibits the viability of MDA-MB-231 cells, with an IC50 of 8.45 μM at 24 h and 6.12 μM at 48 h. Its potency in this cell line is 5-fold higher than that of the PARP1 inhibitors niraparib, olaparib and veliparib.
PROTAC PARP1 degrader (100 μM; 48 h) shows high selectivity toward MDA-MB-231 cells; even after treatment at 100 μM for 48 h, it exhibits only extremely low or no cytotoxicity, with no PARP1 degradation, in MCF10A, BEAS-2B, HeLa and HepG2 cells

SOLUBILITY

Soluble in DMSO

In vitro	DMSO : 100 mg/mL

REFERENCES

[1]. Zhao Q, et al. Induction of apoptosis in MDA-MB-231 breast cancer cells by a PARP1-targeting PROTAC small molecule. Chem Commun (Camb). 2019 Jan 2;55(3):369-372.