## PROTAC BRD4 Degrader-6

MedChemExpress

®

Cat. No.: HY-131203	
CAS No.: 2410947-56-5	
Molecular Formula: $C_{43}H_{40}F_2N_{10}O_{10}S$	
Molecular Weight: 926.9	Q. S. C.
Target:     Epigenetic Reader Domain; Apoptosis; c-Myc; Caspase	
Pathway: Epigenetics; Apoptosis	
Storage:Please store the product under the recommended conditions in the Certificate of Analysis.	o 🥠

BIOLOGICAL ACTIV	ЛТҮ		
Description	PROTAC BRD4 Degrader-6 (compound 32a) is a potent small-molecule BRD4 degrader with IC <sub>50</sub> value of 2.7 nM for BRD4 BD1. PROTAC BRD4 Degrader-6 potently degrades BRD4 protein and inhibits the expression of c-Myc. PROTAC BRD4 Degrader-6 inhibits the proliferation of pancreatic cancer cell line BxPC3 and induces apoptosis. PROTAC BRD4 Degrader-6 can be used for human pancreatic cancer research <sup>[1]</sup> .		
IC₅₀ & Target	BRD4 BD1 2.7 μΜ (IC <sub>50</sub> )	Caspase 3	
In Vitro	<ul> <li>PROTAC BRD4 Degrader-6 (compound 32a) (72 hours; BxPC3 cell) has anti-proliferation activity with IC<sub>50</sub> value of 0.165 μM<sup>[1]</sup></li> <li>PROTAC BRD4 Degrader-6 (compound 32a) (1 μM; 48 hours; BxPC3 cell) induces BRD4 protein degradation in a time-dependent manner, which results in the continuous decrease of c-Myc expression<sup>[1]</sup>.</li> <li>PROTAC BRD4 Degrader-6 (compound 32a) (1 μM; 48 hours; BxPC3 cell) induces the cell cycle arrest and apoptosis<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Western Blot Analysis<sup>[1]</sup></li> </ul>		
	Cell Line:	BxPC3 cell	
	Concentration:	1 μM	
	Incubation Time:	48 hours	
	Result:	Degraded BRD4 protein in a time-dependent manner and inhibits the expression of c-Myc.	
	Cell Cycle Analysis <sup>[1]</sup>		
	Cell Line:	BxPC3 cell	
	Concentration:	1μM	
	Incubation Time:	48 hours	
	Result:	Increase in G0/G1 and G2/M phase cells, and a decrease of S phase cells.	
	Apoptosis Analysis <sup>[1]</sup>		

Cell Line:	BxPC3 cell
Concentration:	1 μΜ
Incubation Time:	48 hours
Result:	The percentage of cells in early and late apoptosis was recorded as 10.10% and 12.36% respectively.
Western Blot Analysis <sup>[1]</sup>	
Cell Line:	BxPC3 cell
Concentration:	1 μM
	48 hours
Incubation Time:	тополз

## REFERENCES

[1]. Zhang J, et al. Development of small-molecule BRD4 degraders based on pyrrolopyridone derivative. Bioorg Chem. 2020 Jun;99:103817.

Caution: Product has not been fully validated for medical applications. For research use only.