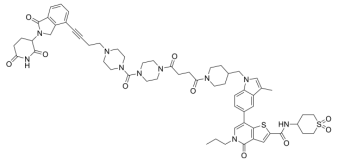
QA-68

Cat. No.:	HY-150797
Molecular Formula:	$C_{61}H_{72}N_{10}O_{10}S_2$
Molecular Weight:	1169.42
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	QA-68 (QA-68-ZU81) is a potent bromodomain-containing protein 9 (BRD9) degrader. QA-68 can inhibit cell cycle progression and cell colony formation. QA-68 has antiproliferative activity against acute myeloid leukemia (AML) cell lines[1]. QA-68 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC_{50} & Target	BRD9

In Vitro

QA-68 (0-1000 nM; 24 h) exhibits antiproliferative activity against MV4-11, SKM-1 and Kasumi-1-luc+ cells, and inhibits BRD9 protein expression in MV4-11, SKM-1, SEM, NALM6, RS4;11[1].

QA-68 (0.1-1000 nM; 4 days) effectively inhibits SKM-1 cell cycle progression[1].

QA-68 (1000 nM; 12 days) inhibits colony formation of additional primary AML bone marrow and PBMC cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	MV4-11, SKM-1 and Kasumi-1-luc+ cells
Concentration:	0-1000 nM
Incubation Time:	24 h
Result:	Exhibited concentration-dependent inhibition of proliferation of MV4-11, SKM-1 and Kasumi-1-luc+ cells with IC_{50}s of 1-10 nM in MV4;11 and SKM-1, and IC_{50} of 10-100 nM in Kasumi-1-luc +, respectively.

Cell Cycle Analysis[1]

Cell Line:	SKM-1cells
Concentration:	0.1, 1, 10, 100 and 1000 nM
Incubation Time:	6 days
Result:	Effectively inhibited SKM-1 cell cycle progression.

Western Blot Analysis[1]

Cell Line:	MV4-11, SKM-1, SEM, NALM6, RS4;11
Concentration:	0, 1, 10, 100 and 1000 nM
Incubation Time:	24 h
Result:	Inhibited BRD9 protein in all tested cell lines.

REFERENCES

[1]. Weisberg E, et al. BRD9 degraders as chemosensitizers in acute leukemia and multiple myeloma. Blood Cancer J. 2022 Jul 19;12(7):110.

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