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Product Data Sheet

PROTAC FLT3/CDK9 degrader-1

Cat. No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-148521 C ₄₇ H ₆₁ N ₁₃ O ₇ 920.07 CDK; FLT3; PROTACs; Apoptosis Cell Cycle/DNA Damage; Protein Tyrosine Kinase/RTK; PROTAC; Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	March H M H - o - o - M - M - M - M - M - M - M - M
	Analysis.	

BIOLOGICAL ACTIV		
Description	-	der-1 is a potent FLT3 and CDK9 dual PROTAC degrader. PROTAC FLT3/CDK9 degrader-1 induces gradation of target proteins FLT3 and CDK9. PROTAC FLT3/CDK9 degrader-1 has the potential for nutated AML ^[1] .
In Vitro	FLT3 Y589/591, p-STAT5 Y6 PROTAC FLT3/CDK9 degrad min with <u>MG132</u> (HY-13259	der-1 (compound PROTAC 13) (0.004, 0.02, 0.1, 0.5, 2.5 μM; 16 h) decreases the expression of p- 694, p-ERK1/2 T202/Y204 and induces apoptosis in a dose-dependent manner in MV4-11 cells ^[1] . der-1 (0, 0.1, 0.5 μM; 16 h) decreases the degradation of target proteins when is pre-treated for 90 e) (0.2 μM) in MV4-11 cells ^[1] . In word the accuracy of these methods. They are for reference only.
	Cell Line:	MV4-11, MV4-11 CRBN-def., MOLM-13, RS4-11, HL60, U937, THP-1, Kasumi-1, CEM, K562 cells
	Concentration:	0-10 μΜ
	Incubation Time:	72 h
	Result:	Showed antiproliferative activity with IC ₅₀ s of 0.047, 0.119, 0.042, 1.014, 6.122, 9.507, 9.993, >10, >10, >10 μM for MV4-11, MV4-11 CRBN-def., MOLM-13, RS4-11, HL60, U937, THP-1, Kasumi-1, CEM, K562 cells, respectively.
	Western Blot Analysis ^[1]	
	Cell Line:	MV4-11 cells
	Concentration:	0.004, 0.02, 0.1, 0.5, 2.5 μM
	Incubation Time:	16 h
	Result:	Decreased the expression of p-FLT3 Y589/591, p-STAT5 Y694, p-ERK1/2 T202/Y204 in a dose-depent manner.
	Apoptosis Analysis ^[1]	

Apoptosis Analysis^[1]

Cell Line:	MV4-11, CRBN-deficient MV4-11 cells
Concentration:	0.004, 0.02, 0.1, 0.5, 2.5 μM
Incubation Time:	16 h
Result:	Induced apoptosis with the activities of caspases 3 and 7 increased in a concentration- dependent manner in MV4-11 cells.

REFERENCES

[1]. Řezníčková E, et al. Modulation of FLT3-ITD and CDK9 in acute myeloid leukaemia cells by novel proteolysis targeting chimera (PROTAC). Eur J Med Chem. 2022 Dec 5;243:114792.

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

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