VEGFR-2-IN-11

Cat. No.:	HY-145856	
Molecular Formula:	C ₂₉ H ₂₂ BrN ₅ S	\sim
Molecular Weight:	552.49	ĹĬ
Target:	VEGFR; Apoptosis	
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis	N N
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N N

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Description	VEGFR-2-IN-11 (Compound 8 activity and induces cell apop	h) is a potent VEGFR-2 inhibitor with an IC ₅₀ of 60.27 nM. VEGFR-2-IN-11 shows antitumor ptosis ^[1] .			
IC ₅₀ & Target	VEGFR-2 60.27 nM (IC ₅₀)				
In Vitro	VEGFR-2-IN-11 (Compound 8h) (0-100 μM) shows antiproliferation activities against tumor cells and induces a low toxic effect in normal cells ^[1] . VEGFR-2-IN-11 (4.92 μM, 24h) arrests the cell cycle on MCF-7 at a G1/S phase and induces MCF-7 cell apoptosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]				
	Cell Line:	HCT-116, HEPG-2, and MCF-7			
	Concentration:	0-100 μΜ			
	Incubation Time:				
	Result:	Showed antiproliferation activities with IC $_{50}$ values of 8.62 \pm 0.7, 10.18 \pm 0.8, and 4.92 \pm 0.2 μ M against HCT-116, HEPG-2, and MCF-7 cells, respectively.			
	Cell Cycle Analysis ^[1]				
	Cell Line:	MCF-7			
	Concentration:	4.92 μΜ			
	Incubation Time:	24 h			
	Result:	Resulted in a significant increase in the ratio of MCF-7 cells in the G0/G1 phase from 45.81 % (untreated cells) to 49.18 % and the S phase from 39.14% (untreated cells) to 43.22% with a concomitant decrease in the number of cells in G2/M phase by 7.6% compared to untreated control (15.05%).			

Apoptosis Analysis^[1]

Product Data Sheet

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Cell Line:	MCF-7		
Concentration:	4.92 μΜ		
Incubation Time:	24 h		
Result:	Induced the early apoptosis in MCF-7 (3.46%) 6.4 folds over the untreated cells (0.54%). Enhanced the late apoptotic induction by 20.72% compared to untreated control (0.18%). Induced total apoptosis with 36.24%.		
Cell Cytotoxicity Assay ^{[1}]		
Cell Line:	WI-38		
Concentration:	0-100 μΜ		
Incubation Time:			
	Induced a low toxic effect with an IC ₅₀ value of 44.45 + 3.2 μ M against WI-38 cells.		

REFERENCES

[1]. Abdelrahman Hamdi, et al. Design, synthesis, antitumor, and VEGFR-2 inhibition activities of novel 4-anilino-2-vinyl-quinazolines: Molecular modeling studies. Bioorg Chem. 2022 May;122:105710.

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

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