Anticancer agent 55

Cat. No.:	HY-146433	
CAS No.:	2408800-91-7	
Molecular Formula:	$C_{28}H_{21}Br_2FN_2O_2$	Br⁻
Molecular Weight:	596.28	
Target:	Apoptosis	
Pathway:	Apoptosis	Br
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F

Product Data Sheet

BIOLOGICAL ACTIVITY Description Anticancer agent 55 is a potent anticancer agent. Anticancer agent 55 shows anticancer activity via reducing the cell viability and cell migration in a dose-dependent manner. Anticancer agent 55 induces apoptosis. Anticancer agent 55 has the potential for the research of prostate cancer and breast cancer ¹¹ . In Vitro Anticancer agent 55 (compound 3h) (0-100 µK; 48 h) inhibits cell viability with IC ₅₀ s of 1.18 µM and 1.95 µM for PC-3, MCF-7 cells, respectively ¹¹ . Anticancer agent 55 (0, 1, 3, 10 µK; 24 h) inhibits cell migration of PC-3 cells and MCF-7 cells in a dose-dependent manner ¹¹ . Anticancer agent 55 (0, 1, 3, 10 µK; 12, 24 h) induces apoptosis by increases the caspase-3 activity and cleaved PARP levels ^[11] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Line: PC-3, MCF-7 cells Concentration: 0-100 µM Incubation Time: 48 h Result: Significantly inhibited cell viability of PC-3, MCF-7 cells with IC ₅₀ s of 1.18 µM and 1.95 µM, respectively. Apoptosis Analysis ^[11] Cell Line: PC-3, MCF-7 cells Concentration: 0, 1, 3, 10 µK PC-3, MCF-7 cells Concentration: 0, 1, 3, 10 µK PC-3, MCF-7 cells Concentration: 0, 1, 3, 10 µK PC-3, MCF-7 for 24 h Result: Induced apopto						
cells, respectively ^[1] . Anticancer agent 55 (0, 1, 3, 10 µM; 24 h) inhibits cell migration of PC-3 cells and MCF-7 cells in a dose-dependent manner ^[1] . Anticancer agent 55 (0, 1, 3, 10 µM; 12, 24 h) induces apoptosis by increases the caspase-3 activity and cleaved PARP levels ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1] Cell Line: PC-3, MCF-7 cells Concentration: 0-100 µM Incubation Time: 48 h Result: Significantly inhibited cell viability of PC-3, MCF-7 cells with IC ₅₀ S of 1.18 µM and 1.95 µM, respectively. Apoptosis Analysis ^[1] Cell Line: PC-3, MCF-7 cells Concentration: 0, 1, 3, 10 µM Incubation Time: PC-3 for 12 h; MCF-7 for 24 h Result: Induced apoptosis by increased the caspase-3 activity in a concentration-dependent manner.		Anticancer agent 55 is a pote and cell migration in a dose-	-dependent manner. Anticancer agent 55 induces apoptosis. Anticancer agent 55 has the			
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western Blot Analysis ^[1]		Incubation Time:	PC-3 for 12 h; MCF-7 for 24 h			
		Result:				
Cell Line: PC-3 MCE-7 cells		Western Blot Analysis ^[1]				
		Cell Line:	PC-3, MCF-7 cells			

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Concentration:	0, 1, 3, 10 μΜ
Incubation Time:	PC-3 for 12 h; MCF-7 for 24 h
Result:	Increased cleaved PARP levels in a dose-dependent manner in PC-3 and MCF-7 cells.

REFERENCES

[1]. Seo Y, et al. Expansion of chemical space based on a pyrrolo[1,2-a]pyrazine core: Synthesis and its anticancer activity in prostate cancer and breast cancer cells. Eur J Med Chem. 2020 Feb 15;188:111988.

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

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