Anticancer agent 32

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®

Cat. No.:	HY-143303	
CAS No.:	2222930-76-7	
Molecular Formula:	$C_{24}H_{21}F_{2}N_{5}O$	
Molecular Weight:	433.45	
Target:	Apoptosis	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Anticancer agent 32 (compound 2g) is an anticancer agent. Anticancer agent 32 shows anticancer activities, affects cell cycle and induces cell apoptosis. Anticancer agent 32 can be used for the research of cancer ^[1] .		
IC50: 17.2 μM (MGC-803), 12.3 μM (HeLa), 40.6 μM (NCI-H460), 46.8 μM (HepG2), 95.4 μM (SMMC-7721), 8.9 μM (T-24), 86.8 μM (HL-7702) ^[1]		
Anticancer agent 32 (2.5-40 μM; 48 h) shows cytotoxic activities to cancer cell lines ^[1] . Anticancer agent 32 (0-16 μM; 24 h) affects cell cycle, induces cell apoptosis, increases intracellular levels of Ca ²⁺ and ROS ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]		
Cell Line:	MGC-803, HeLa, NCI-H460, HepG2, SMMC-7721, T-24 and HL-7702 cell lines	
Concentration:	2.5, 5, 10, 20 and 40 μM	
Incubation Time:	48 hours	
Result:	Inhibited cell growth with IC $_{50}$ values of 17.2, 12.3, 40.6, 46.8, 95.4, 8.9 and 86.8 μM for MGC-803, HeLa, NCI-H460, HepG2, SMMC-7721, T-24 and HL-7702 cells, respectively.	
Cell Cycle Analysis ^[1]		
Cell Line:	MGC-803 and T-24 cell lines	
Concentration:	0, 8 and 12 μM	
Incubation Time:	24 hours	
Result:	Significantly induced cell cycle arrest at the G2/M phase in T-24 cells.	
Western Blot Analysis ^[1]		
Cell Line:	MGC-803 and T-24 cell lines	
Concentration:	4, 8 and 12 μM	
	TY Anticancer agent 32 (compor and induces cell apoptosis. A IC50: 17.2 μM (MGC-803), 12.3 (HL-7702) ^[1] Anticancer agent 32 (2.5-40 μ Anticancer agent 32 (0-16 μM MCE has not independently of Cell Cytotoxicity Assay ^[1] Cell Line: Concentration: Incubation Time: Result: Cell Cycle Analysis ^[1] Cell Line: Concentration: Incubation Time: Result: Western Blot Analysis ^[1] Cell Line: Concentration:	

Product Data Sheet



Incubation Time:	24 hours
Result:	Decreased expression level of cyclin B1.
Apoptosis Analysis ^[1]	
Cell Line:	MGC-803 and T-24 cell lines
Concentration:	0, 4, 8 and 16 μM
Incubation Time:	24 hours
Result:	Induced cell apoptosis of T-24 cells from 8.21 to 32.91% after treatment by increas levels of caspase-3 and caspase-9 in T-24 cells.

REFERENCES

[1]. Li GZ, et al. Synthesis and biological evaluation of novel 1,3-diphenylurea quinoxaline derivatives as potent anticancer agents. Med Chem Res 30, 1496–1511 (2021).

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

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