Antiproliferative agent-19

Cat. No.:	HY-152099	
Molecular Formula:	$C_{26}H_{23}NO$	
Molecular Weight:	365.47	
Target:	Apoptosis	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N N N

	Antiproliferative agent-19 (11.33 μM; 24, 48, and 72 h) induces sub⊠G1⊠phase cell cycle arrest in A549 cells ^[1] . Antiproliferative agent-19 (11.33 μM; 6, 24 and 48 h) induces apoptosis via intrinsic and extrinsic pathways in A549 cells ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]
In Vitro	Antiproliferative agent-19 (0-50 μM; 72 h) significantly inhibits the viability of human nonsmall cell lung cancer and colon cancer cells ^[1] .
Description	Antiproliferative agent-19 (compound 4a) is an anti-cancer agent that exerts anti-proliferative effects on lung cancer cells inducing apoptosis. antiproliferative agent-19 also induces cell cycle arrest in the G2/M phase ^[1] .

Cell Line:	HCT-116 and A549 cells
Concentration:	0-50 μΜ
Incubation Time:	72 h
Result:	Inhibited the growth of HCT-116 and A549 cells with IC_{50} values of 12.18 and 11.33 μM , respectively.

Cell Cycle Analysis^[1]

Cell Line:	A549 cells
Concentration:	11.33 μM
Incubation Time:	24, 48, and 72 h
Result:	Increased cells of G2 phase significantly from 3.2% (DMSO-treated cells) to 15.5% and 33.8% (cells treated with the compound for 24 and 48 h, respectively).

Apoptosis Analysis^[1]

Cell Line:	A549 cells
Concentration:	11.33 μM

by



BIOLOGICAL ACTIVITY



Product Data Sheet

Incubation Time:	6, 24 and 48 h
Result:	Induced caspase-dependent cell death.

REFERENCES

[1]. Ryczkowska M, et al. Tetrahydroquinolinone derivatives exert antiproliferative effect on lung cancer cells through apoptosis induction. Sci Rep. 2022 Nov 9;12(1):19076.

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

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