## Antitumor agent-53

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Cat. No.:	HY-146743	
CAS No.:	2757145-67-6	<u> </u>
Molecular Formula:	C <sub>24</sub> H <sub>18</sub> FN <sub>3</sub> O	N-
Molecular Weight:	383.42	
Target:	Apoptosis	$H \longrightarrow $
Pathway:	Apoptosis	F
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

Description	Antitumor agent-53 is a potent antitumor agent. Antitumor agent-53 induces cell cycle arrest at the G2/M phase. Antitumor agent-53 inhibits the PI3K/AKT pathway to induce the apoptosis of HGC-27 cells. Antitumor agent-53 has the potential for the research of gastrointestinal tumors <sup>[1]</sup> .			
In Vitro	Antitumor agent-53 (compound 6f) (0, 0.22, 0.67, 2, 6, 18 $\mu$ M; 72 h) shows anti-proliferation activity with IC <sub>50</sub> s of 3.10, 0.37, 4.01, >18, 7.87, 9.11 $\mu$ M for HGC-27, HT-29, HepG-2, A549, MCF7, GES-1 cells <sup>[1]</sup> . Antitumor agent-53 (0.15, 0.3, 0.6 $\mu$ M) shows anti-proliferative activity in HGC-27 and HT-29 cells with a dose-dependent manner <sup>[1]</sup> . Antitumor agent-53 (100, 200 $\mu$ M) shows a certain inhibitory activity against Topo I at 200 $\mu$ M <sup>[1]</sup> . Antitumor agent-53 (0.1, 0.3, 0.9 $\mu$ M; 24 h) induces cell cycle arrest at the G2/M phase in HGC-27, HT-29 cells <sup>[1]</sup> . Antitumor agent-53 (0.1, 0.3, 0.9, 2.7 $\mu$ M; 24 h) induces the apoptosis of HGC-27 and HT-29 cells in a concentration-dependent manner <sup>[1]</sup> . Antitumor agent-53 (0.15, 0.3, 0.6 $\mu$ M; 24 h) inhibits the migration and invasion of HGC-27 cells in a concentration-dependent manner <sup>[1]</sup> . Antitumor agent-53 (0.1, 0.3, 0.9 $\mu$ M; 24 h) suppresses the PI3K/AKT pathway to induce the apoptosis of HGC-27 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	HGC-27, HT-29, HepG-2, A549, MCF7, GES-1 cells		
	Concentration:	0, 0.22, 0.67, 2, 6, 18 μM		
	Incubation Time:	72 h		
	Result:	Showed anti-proliferation activity with IC $_{50}$ s of 3.10, 0.37, 4.01, >18, 7.87, 9.11 $\mu$ M for HGC-27, HT-29, HepG-2, A549, MCF7, GES-1 cells.		
	Cell Cycle Analysis <sup>[1]</sup>			
	Cell Line:	HGC-27, HT-29 cells		
	Concentration:	0.1, 0.3, 0.9 μM		
	Incubation Time:	24 h		

Result:	Cells were arrest at the G2/M phase.	
Apoptosis Analysis <sup>[1]</sup>		
Cell Line:	HGC-27, HT-29 cells	
Concentration:	0.1, 0.3, 0.9, 2.7 μM	
Incubation Time:	24 h	
Result:	Induced the apoptosis of HGC-27 and HT-29 cells in a concentration-dependent manne	
Western Blot Analysis <sup>[1]</sup>		
Cell Line:	HGC-27 cells	
Concentration:	0.1, 0.3, 0.9 μΜ	
Incubation Time:	24 h	
Pocult	Suppressed the PI3K/AKT pathway to induce the apoptosis of HGC-27 cells.	

## REFERENCES

[1]. Hao X, et al. Design, synthesis and bioactivity evaluation of novel N-phenyl-substituted evodiamine derivatives as potent anti-tumor agents. Bioorg Med Chem. 2021; 55:116595.

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

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