## Antitumor agent-97

MedChemExpress

®

CAS No.:       2654024-16-3         Molecular Formula:       C24H34O3         Molecular Weight:       370.52         Target:       Apoptosis; Autophagy         Pathway:       Apoptosis; Autophagy         Storage:       Please store the product under the recommended conditions in the Certificate of Analysis.	M OH
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BIOLOGICAL ACTIV	ΙΤΥ		
Description	Antitumor agent-97 (compound 42) is an anticancer agent. Antitumor agent-97 can effectively inhibit the proliferation and autophagy of MGC 803 cells, and induce apoptosis. Antitumor agent-97 also enhances ROS accumulation in MGC 803 cells. Antitumor agent-97 also enhances ROS accumulation in MGC 803 cells.		
In Vitro	Antitumor agent-97 (Compound 42; 0-200 $\mu$ M; 24 h) inhibits cell viability of MGC 803 cells in a dose-dependent manner, with an IC <sub>50</sub> value of 20.921 $\mu$ M <sup>[1]</sup> . Antitumor agent-97 (20 $\mu$ M; 24 h) decreases cell proliferation of MGC 803 cells <sup>[1]</sup> . Antitumor agent-97 (20 $\mu$ M; 24 h) induces apoptosis and inhibits autophagy in MGC 803 cells <sup>[1]</sup> . Antitumor agent-97 (20 $\mu$ M; 0-24 h) enhances ROS accumulation in MGC 803 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	MGC 803 cells	
	Concentration:	0-200 μΜ	
	Incubation Time:	24 h	
	Result:	Suppressed cell viability (IC <sub>50</sub> = 20.921 $\mu$ M).	
	Cell Proliferation Assay <sup>[1]</sup>		
	Cell Line:	MGC 803 cells	
	Concentration:	20 μΜ	
	Incubation Time:	24 h	
	Result:	Inhibited cell proliferation.	
	Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	MGC 803 cells	
	Concentration:	20 μΜ	

Incubation Time:	24 h
Result:	Significantly upregulated the protein expression of LC3B-II and p62 and decreased the protein expression of LC3B-I.
	Enhanced the protein expression of cleaved caspase-9 and cleaved caspase-3, and
	decreased the protein expression of B-cell lymphoma-2 (Bcl-2).

## REFERENCES

[1]. Mao XD, et al. Synthesis and Bioactivity Evaluation of Nepetaefolin F and Its Analogues. ACS Omega. 2023 Apr 12;8(16):14830-14840.

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

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