## Anticancer agent 118

Cat. No.:	HY-154861	
CAS No.:	864443-43-6	
Molecular Formula:	C <sub>19</sub> H <sub>19</sub> CIFN <sub>3</sub> O <sub>4</sub>	
Molecular Weight:	407.82	OH OH
Target:	Bacterial; Apoptosis; Necroptosis	
Pathway:	Anti-infection; Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL AC				
Description	Anticancer agent 118, a 118 shows high activity	Anticancer agent 118, a N⊠acylated ciprofloxacin derivative, has anti-bacterial and anticancer activities. Anticancer agent 118 shows high activity against Gram-positive strains and antiproliferative activities against prostate PC3 cells. Anticancer agent 118 can be used for antitumor research <sup>[1]</sup> .		
In Vitro	Anticancer agent 118 (Compound 3) (0-100 μM; 72 hours) shows high antiproliferative activities against prostate PC3 cells and induces apoptosis/necrosis in PC3 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:	Prostate PC3 and HaCaT cells		
	Concentration:	0-100 μΜ		
	Incubation Time:	72 hours		
	Result:	Showed high antiproliferative activities against prostate PC3 cells with an IC <sub>50</sub> of 2.02 μM. Reduced the growth and proliferation rates in prostate PC3cells, without acytotoxic action against normal HaCaT cell lines. Induced apoptosis/necrosis in PC3 cells by increasing the intracellular ROS amount and diminished the IL-6 level in tumor cells.		

## REFERENCES

[1]. Struga M, et.al. N-Acylated Ciprofloxacin Derivatives: Synthesis and In Vitro Biological Evaluation as Antibacterial and Anticancer Agents. ACS Omega. 2023 May 18;8(21):18663-18684.

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

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## **Product** Data Sheet

Inhibitors

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**Screening Libraries** 

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Proteins

