Anticancer agent 193

MedChemExpress

®

Cat. No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-162310 C ₃₄ H ₄₇ ClN ₂ O ₆ 615.2 Ferroptosis; Reactive Oxygen Species; Autophagy Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Autophagy Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

Description	Anticancer agent 193 (com 193 induces the production autophagy-dependent ma	pound D3-3) is an inducer of ferritinophagy, eventually triggering ferroptosis. Anticancer agent n of lipid ROS, and significantly promoted colorectal cancer cells to release the ferrous ion in an nner ^[1] .
In Vitro	Anticancer agent 193 (D3-3 values are 15.06 μM, 11.18 Anticancer agent 193 (D3-3 enhances FTH1 expression Anticancer agent 193 (D3-3 Anticancer agent 193 (D3-3 manner ^[1] . MCE has not independent! Cell Proliferation Assay ^[1]	 B; 2.5-30 μM; 12-48 h) inhibits the proliferation of HCT-116 cells for 12, 24, and 48 h and the IC₅₀ μM, and 5.87 μM, respectively^[1]. B; 5-20 μM; 12 h) considerably increases the autophagy marker protein LC3B-II/LC3B-I ratio. And it n, a ferritin subunit^[1]. B; 5-20 μM; 12 h) effectively promotes the accumulation of lipid ROS^[1]. B) remarkably increases the level of ferrous iron in HCT-116 cells in a concentration-dependent y confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	HCT-116 cells
	Concentration:	2.5 μΜ, 5 μΜ, 7.5 μΜ,10 μΜ, 15 μΜ, 30 μΜ
	Incubation Time:	12, 24, and 48 h
	Result:	Inhibited the proliferation of human colon cancer cells.
	Western Blot Analysis ^[1]	
	Cell Line:	HCT-116 cells
	Concentration:	5 μΜ, 10 μΜ, 20 μΜ
	Incubation Time:	12 h
	Result:	Induced ferritinophagy in HCT-116 cells through the LC3-NCOA4-FTH1 axis.
In Vivo	Anticancer agent 193 (D3-3 the HCT-116 xenograft mo MCE has not independentl	3; 30-60 mg/kg; i.p; daily; for 2 weeks) restraines tumor growth and promoted lipid peroxidation in del ^[1] . y confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

Animal Model:	Female BALB/c nude mice injected with HCT-116 $cells^{[1]}$
Dosage:	30 mg/kg or 60 mg/kg
Administration:	i.p; daily; for 2 weeks
Result:	Inhibited tumor growth in vivo.

REFERENCES

[1]. Ling Zhu, et al. Identification of a ferritinophagy inducer via sinomenine modification for the treatment of colorectal cancer. Eur J Med Chem. 2024 Feb 21:268:116250.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA