Data Sheet (Cat.No.T209422)

TargetMol

Anticancer agent 193

Chemical Properties

CAS No. :

Formula: C34H47ClN2O6

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anticanceragent 193 (compound D3-3) is an inducer of ferritinophagy, ultimately triggering ferroptosis. This compound stimulates the production of lipid ROS and significantly enhances the release of ferrous ions in colorectal cancer cells through an autophagy-dependent mechanism.
Targets(IC50)	Ferroptosis,Reactive Oxygen Species,Autophagy
In vitro	Anticancer agent 193 (D3-3; 2.5-30 μM; 12-48 h) inhibits HCT-116 cell proliferation with IC50 values of 15.06 μM, 11.18 μM, and 5.87 μM at 12, 24, and 48 hours, respectively. At concentrations of 5-20 μM over 12 hours, it significantly increases the ratio of autophagy marker proteins LC3B-II/LC3B-I and enhances the expression of ferritin subunit FTH1. Additionally, Anticancer agent 193 (D3-3) promotes the accumulation of lipid ROS and markedly increases divalent iron levels in a concentration-dependent manner in HCT-116 cells.
In vivo	Agent 193 (D3-3; 30-60 mg/kg; intraperitoneal injection; daily; for 2 weeks) inhibits tumor growth and enhances lipid peroxidation in the HCT-116 xenograft model.

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