

Antitumor agent-143

Chemical Properties

CAS No. :

Formula: C47H29Cl2F6IrN9P

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	Antitumor agent-143 (compound 2c) is an antitumor agent that inhibits cell proliferation during the S phase in A549 cells and induces early apoptosis (apoptosis). It leads to cell death via ferroptosis (ferroptosis), apoptosis through ROS-mediated mitochondrial dysfunction, and pyroptosis (pyroptosis) mediated by GSDMD.
Targets(IC50)	Apoptosis,Ferroptosis,Reactive Oxygen Species,Pyroptosis
In vitro	Antitumor agent-143 (compound 2c; 48h) inhibits the growth of A549, B16, HCT116, and HepG2 cells, with IC50 values of 2.2 μ M, 2.5 μ M, 2.5 μ M, and 1 μ M, respectively. It halts cell proliferation in the S phase and triggers early apoptosis in A549 cells. The agent increases ROS and Ca ²⁺ levels, leading to reduced mitochondrial membrane potential, opening of the mitochondrial permeability transition pore, and increased cytochrome c.
In vivo	Compound 2c, known as Antitumor agent-143, was observed to reduce tumor volume in mice.

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