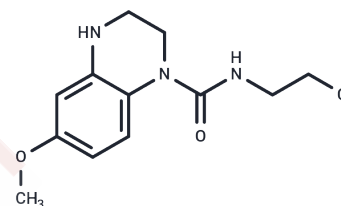


Anticancer agent 194

Chemical Properties

CAS No. :	2767204-90-8
Formula:	C ₁₂ H ₁₆ ClN ₃ O ₂
Molecular Weight:	269.73
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	Anticancer agent 194 (compound 10p), a ferroptosis and autophagy inducer, arrests the colon cancer cell cycle at the G2/M phase without inducing apoptosis, and independently triggers cell ferroptosis and autophagy through the massive accumulation of ROS [1].
Targets(IC50)	Ferroptosis, Reactive Oxygen Species, Autophagy
In vitro	Anticancer Agent 194 (Compound 10p; 1-10 μM; 48 hours) exhibits anti-proliferative activity against HT-29 cancer cells with an IC50 of 1.97 μM[1]. At concentrations of 1-4 μM, this compound arrests the cell cycle in the G2/M phase and decreases the expression of GPX4 in a concentration-dependent manner[1]. Moreover, Anticancer Agent 194 induces autophagy in HT-29 cells within a concentration range of 0.5-4 μM[1]. Cell viability assays indicate an increase in cell death after treatment for 48 hours at concentrations of 1 μM, 5 μM, and 10 μM. Cell cycle analysis reveals arrest at the G2/M phase at concentrations of 1 μM, 2 μM, and 4 μM. Western Blot analysis shows a decrease in GPX4 expression as concentration increases. Autophagy assays demonstrate the occurrence of autophagy in HT-29 cells at concentrations of 1 μM, 2 μM, and 4 μM[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7074 mL	18.5371 mL	37.0741 mL
5 mM	0.7415 mL	3.7074 mL	7.4148 mL
10 mM	0.3707 mL	1.8537 mL	3.7074 mL
50 mM	0.0741 mL	0.3707 mL	0.7415 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481