

Anticancer agent 272

Chemical Properties

CAS No. :

Formula: C₂₆H₃₄Br₂Cl₄Cu₂N₈

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 272 (Compound 2) is an anticancer agent demonstrating significant activity against bladder cancer cells (T-24) with an IC ₅₀ of 2.81 μM. It depletes glutathione (GSH) through a Fenton-like reaction, generating reactive oxygen species (ROS) and hydroxyl radicals (\cdot OH), thereby inducing apoptosis and ferroptosis. Anticanceragent 272 enhances chemodynamic therapy (CDT) and promotes tumor cell death through mitochondrial dysfunction and autophagy. It holds potential for further research in bladder cancer.
Targets(IC ₅₀)	Apoptosis,Ferroptosis,Reactive Oxygen Species

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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