Data Sheet (Cat.No.T217308)

TargetMol

ICR-191 dihydrochloride

Chemical Properties

CAS No. : 17070-45-0

Formula: C19H23Cl4N3O

Molecular Weight: 451.21

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	ICR-191 enhances the binding of Cisplatin to DNA and increases cell sensitivity to Cisplatin. It significantly elevates the expression of phosphorylated H2AX (γH2AX), particularly in cells undergoing DNA replication, and is applicable in leukemia research.
Targets(IC50)	DNA/RNA Synthesis
In vitro	ICR-191 induces mutations such as G insertions in CHO-ICR cells over 16 hours, creating new GG sites and increasing cisplatin binding sites. The IC 50 value of cisplatin in these cells is reduced to 15.96 μM, compared to 25.42 μM in CHO wild-type (WT) cells. The fluorescence intensity of ICR-191 (8-12 μM) decreases with increasing CHL concentration. ICR-191 (8-10.1 μM) interacts with DNA through intercalation but has relatively low affinity. Additionally, ICR-191 (1.2 μM, 1 hour) induces phosphorylation of histone H2AX (γH2AX) in HL-60 cells, especially during the S phase.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2163 mL	11.0813 mL	22.1626 mL
5 mM	0.4433 mL	2.2163 mL	4.4325 mL
10 mM	0.2216 mL	1.1081 mL	2.2163 mL
50 mM	0.0443 mL	0.2216 mL	0.4433 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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