Product Data Sheet

Anticancer agent 83

Cat. No.: HY-151426 CAS No.: 904815-29-8 Molecular Formula: C₂₀H₁₉N₅OS Molecular Weight: 377.46 Target: **Apoptosis** Pathway: **Apoptosis**

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description

Anticancer agent 83 is a potent anticancer agent, inhibits LOX IMVI cells growth with a GI₅₀ value of 0.15 mM. Anticancer agent 83 reduces mitochondrial membrane potential and induces DNA damage to induces leukemia cells apoptosis^[1].

In Vitro

Anticancer agent 83 (compound 4a) (0.01-100 μM; 24 h) showing strong activity towards human colon carcinoma HCT116 $p53^{-/-}$ cells with deletion of P53 gene (GI₅₀=8.4 μ M), human epidermoid cervix carcinoma KB3-1 (GI₅₀=7.4 μ M), human ovarian carcinoma Skov 3 cells (GI₅₀=10 μM), and human chronic myelogenous leukemia K562 cells (GI₅₀=5.4 μM)^[1]. Anticancer agent 83 (0.5 μM; 24 h) interrupts DNA stability and induction of apoptosis in Jurkat cells, and decreases mitochondrial membrane potential [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	Human colon carcinoma HCT116 p53–/– cells with deletion of P53 gene, human epidermoid cervix carcinoma KB3-1, human ovarian carcinoma Skov 3 cells, and human chronic myelogenous leukemia K562 cells
Concentration:	0.01, 0.1, 1, 10, 100 μM
Incubation Time:	24 hours
Result:	Inhibited cell viability in different cells with GI_{50} s of 8.4 M (HCT116 p53 ^{-/-}), 7.4 M (KB3-1), 10 M (Skov 3), and 5.4 M (K562), respectively.

Immunofluorescence^[1]

Cell Line:	Jurkat cells
Concentration:	0.5 μΜ
Incubation Time:	24 hours
Result:	Induced morphological changes (including apoptotic bodies, membrane blebbing, chromatin condensation), and DNA fragmentation in Jurkat T-cells.

REFERENCES



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