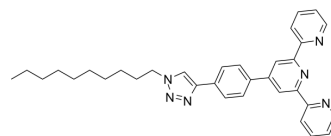


Anticancer agent 54

Cat. No.:	HY-146063
CAS No.:	2933882-99-4
Molecular Formula:	C ₃₃ H ₃₆ N ₆
Molecular Weight:	516.68
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 54 is a potent anticancer agent. Anticancer agent 54 shows antiproliferative activity. Anticancer agent 54 induces apoptosis and cell cycle arrest at G0/G1 phases. Anticancer agent 54 shows anticancer activity depends on DNA intercalation and ROS generation ^[1] .																
In Vitro	<p>Anticancer agent 54 (compound L) (0-25 μM; 72 h) shows antiproliferative activity with IC₅₀s of 0.04, 0.44, 0.27, 0.14, 0.75, 20.83 μM for MCF-7, PANC-1, HCT116, U-251, A549, NHDF (normal human fibroblast) clls, respectively^[1].</p> <p>Anticancer agent 54 (1, 2.5, 5 μM; 24 h) induces cell cycle arrest at G0/G1 phases and apoptosis in a concentration-dependent manner^[1].</p> <p>Anticancer agent 54 (1 μM; 24 h) increases the reactive oxygen species (ROS) level^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF-7 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 2.5, 5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Induced cell cycle arrest at G0/G1 phases in a concentration-dependent manner.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF-7 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 2.5, 5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>The level of the apoptotic cells increased from 7.62% to 29.33% and the population of living cells decreased from 92.01% to 55.27% at 5 μM.</td> </tr> </table>	Cell Line:	MCF-7 cells	Concentration:	1, 2.5, 5 μM	Incubation Time:	24 h	Result:	Induced cell cycle arrest at G0/G1 phases in a concentration-dependent manner.	Cell Line:	MCF-7 cells	Concentration:	1, 2.5, 5 μM	Incubation Time:	24 h	Result:	The level of the apoptotic cells increased from 7.62% to 29.33% and the population of living cells decreased from 92.01% to 55.27% at 5 μM.
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REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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