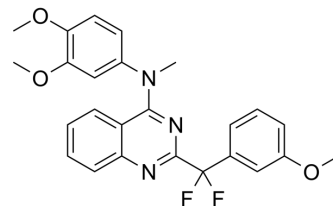


Anticancer agent 198

Cat. No.:	HY-158025
Molecular Formula:	C ₂₅ H ₂₃ F ₂ N ₃ O ₃
Molecular Weight:	451.47
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 198 (compound 18b) is a potent anticancer agent and potential WRN protein inhibitor. Anticancer agent 198 was significantly toxic to K562 cells and WRN-overexpressing PC3 cells ^[1] .								
In Vitro	<p>Anticancer agent 198 significantly inhibits the survival of PC3-WRN cells, with IC₂₀ of 0.12 μM and 0.98 μM between PC3-WRN (OE) cells and PC3 cells, respectively^[1].</p> <p>Anticancer agent 198 (5 μM) against several cancers The IC₅₀s of the cell lines are >10 μM (PC3 cells), 0.05 μM (K562 cells), and 1.1 μM (293T cells)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td><td>PC3, K562, A549, HeLa, 293T cells</td></tr> <tr> <td>Concentration:</td><td>5 μM</td></tr> <tr> <td>Incubation Time:</td><td></td></tr> <tr> <td>Result:</td><td>Showed inhibition rates of 62.7% (PC3), 65.57% (K562), 53.27% (HeLa), 51.27% (A549), 63.67% (293T), respectively.</td></tr> </table>	Cell Line:	PC3, K562, A549, HeLa, 293T cells	Concentration:	5 μM	Incubation Time:		Result:	Showed inhibition rates of 62.7% (PC3), 65.57% (K562), 53.27% (HeLa), 51.27% (A549), 63.67% (293T), respectively.
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REFERENCES

[1]. Wang M, et al. Design, synthesis and antitumor activity of 2-substituted quinazoline-4-amine derivatives. Bioorg Med Chem. 2024 Mar 15;102:117660.

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

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