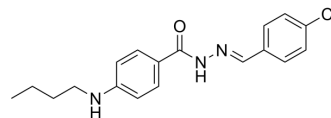


## Anticancer agent 100

Cat. No.:	HY-149214
CAS No.:	2914922-73-7
Molecular Formula:	C <sub>18</sub> H <sub>20</sub> ClN <sub>3</sub> O
Molecular Weight:	329.82
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Anticancer agent 100 is a derivative of tetracaine with anti-cancer activity and can be used in cancer research <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Anticancer agent 100 (Compound 2f) (25 μM and 50 μM; 24 h) down-regulates the expression level of apoptotic protein PI3K and FoXO3a, up-regulates the expression level of PTEN and FoXO1 in Colo-205 cells<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Colo-205 cells.</td> </tr> <tr> <td>Concentration:</td> <td>25 μM and 50 μM.</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h.</td> </tr> <tr> <td>Result:</td> <td>Inhibited the expression of PI3K and FoXO3a, increased the expression of PTEN and FoXO1.</td> </tr> </table>	Cell Line:	Colo-205 cells.	Concentration:	25 μM and 50 μM.	Incubation Time:	24 h.	Result:	Inhibited the expression of PI3K and FoXO3a, increased the expression of PTEN and FoXO1.
Cell Line:	Colo-205 cells.								
Concentration:	25 μM and 50 μM.								
Incubation Time:	24 h.								
Result:	Inhibited the expression of PI3K and FoXO3a, increased the expression of PTEN and FoXO1.								

### REFERENCES

[1]. Han Mí, et al. Design, Synthesis, and Anticancer Evaluation of Novel Tetracaine Hydrazide-Hydrazones. ACS Omega. 2023 Feb 28;8(10):9198-9211.

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

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