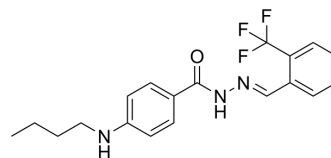


## Anticancer agent 101

Cat. No.:	HY-149215
CAS No.:	2914922-80-6
Molecular Formula:	C <sub>19</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> O
Molecular Weight:	363.38
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Anticancer agent 101 is a derivative of tetracaine. Anticancer agent 101 has anti-cancer activity <sup>[1]</sup> .	
In Vitro	Anticancer agent 101 (compound 2m; 24 and 48 h) has antitumor activity with IC <sub>50</sub> values of 20.5 μM and 62.9 μM against Colo-205 and HepG2 cells, respectively <sup>[1]</sup> .	
	Anticancer agent 101 (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.	
	Cell Viability Assay <sup>[1]</sup>	
	Cell Line:	Colo-205 and HepG2 cells
	Concentration:	12.5, 25, 50, 100, 200, and 400 μM
	Incubation Time:	24 and 48 hours
	Result:	Inhibited cell growth in a dose-dependent manner.
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	Colo-205 cell
Concentration:	25 μM and 50 μM	
Incubation Time:	24 hours	
Result:	Down-regulated the expression level of apoptotic protein PI3K and FoXO3a, up-regulated the expression level of PTEN and FoXO1 in Colo-205 cells	

### REFERENCES

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

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

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