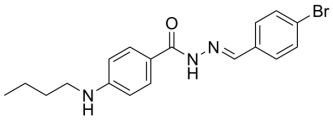
Anticancer agent 103

Cat. No.:	HY-149216
CAS No.:	2914922-78-2
Molecular Formula:	$C_{18}H_{20}BrN_3O$
Molecular Weight:	374.27
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 103 (Compound 2k) is a potent anticancer agent[1].

In Vitro

Anticancer agent 103 (Compound 2k; 12.5-400 μM; 24 or 48 h) inhibits HepG2 cell viability, but not Colo-205 viability[1].
Anticancer agent 103 (25 and 50 μM; 24 h) increases the FoXO1, TXNIP and p27 protein levels in HepG2 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	HepG2 and Colo-205 cells
Concentration:	12.5, 25, 50, 100, 200 and 400 μM
Incubation Time:	24 or 48 h
Result:	Demonstrated anticancer activity against cancer cell line HepG2 with IC_{50}s of 30.5 μM and 14.8 μM for 24h and 48 h, respectively. The IC_{50} for Colo-205 was >400 μM.

Western Blot Analysis[1]

Cell Line:	HepG2 cells
Concentration:	25 and 50 μM
Incubation Time:	24 h
Result:	Increased the FoXO1, TXNIP and p27 protein levels.

REFERENCES

[1]. Han Mİ, 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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