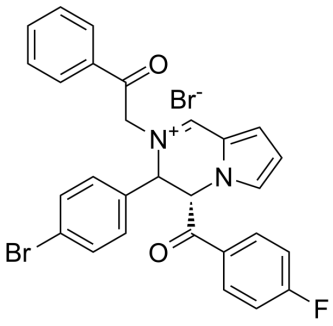
Anticancer agent 55

Cat. No.:	HY-146433
CAS No.:	2408800-91-7
Molecular Formula:	$C_{28}H_{21}Br_2FN_2O_2$
Molecular Weight:	596.28
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Anticancer agent 55 is a potent anticancer agent. Anticancer agent 55 shows anticancer activity via reducing the cell viability and cell migration in a dose-dependent manner. Anticancer agent 55 induces apoptosis. Anticancer agent 55 has the potential for the research of prostate cancer and breast cancer[1].

In Vitro

Anticancer agent 55 (compound 3h) (0-100 μM; 48 h) inhibits cell viability with IC_{50}s of 1.18 μM and 1.95 μM for PC-3, MCF-7 cells, respectively[1].
Anticancer agent 55 (0, 1, 3, 10 μM; 24 h) inhibits cell migration of PC-3 cells and MCF-7 cells in a dose-dependent manner[1].
Anticancer agent 55 (0, 1, 3, 10 μM; 12, 24 h) induces apoptosis by increases the caspase-3 activity and cleaved PARP levels[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	PC-3, MCF-7 cells
Concentration:	0-100 μM
Incubation Time:	48 h
Result:	Significantly inhibited cell viability of PC-3, MCF-7 cells with IC_{50}s of 1.18 μM and 1.95 μM, respectively.

Apoptosis Analysis[1]

Cell Line:	PC-3, MCF-7 cells
Concentration:	0, 1, 3, 10 μM
Incubation Time:	PC-3 for 12 h; MCF-7 for 24 h
Result:	Induced apoptosis by increased the caspase-3 activity in a concentration-dependent manner.

Western Blot Analysis[1]

Cell Line:	PC-3, MCF-7 cells

Concentration:	0, 1, 3, 10 μM
Incubation Time:	PC-3 for 12 h; MCF-7 for 24 h
Result:	Increased cleaved PARP levels in a dose-dependent manner in PC-3 and MCF-7 cells.

REFERENCES

[1]. Seo Y, et al. Expansion of chemical space based on a pyrrolo[1,2-a]pyrazine core: Synthesis and its anticancer activity in prostate cancer and breast cancer cells. Eur J Med Chem. 2020 Feb 15;188:111988.

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