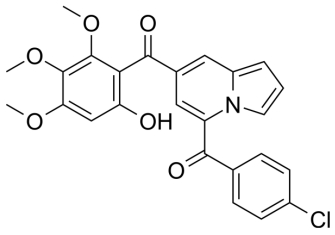
Antitumor agent-72

Cat. No.:	HY-150696
CAS No.:	2676942-92-8
Molecular Formula:	$C_{25}H_{20}ClNO_6$
Molecular Weight:	465.88
Target:	Apoptosis; Caspase; PARP
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Antitumor agent-72 (compound 6w) is a potent anticancer agent. Antitumor agent-72 has anticancer activity and induces apoptosis through activation of caspase-3 and cleavage of PARP. Antitumor agent-72 can be used for cancer research[1].

In Vitro

Antitumor agent-72 (compound 6w) (0-10 μM; 72 h; BxPC3, PC3 and MCF7 cells) has anticancer activity and inhibits cell viability in a dose-dependent manner[1].

Antitumor agent-72 (compound 6w) (0-10 μM; 24 h; BxPC3 cells) induces apoptosis through activation of caspase-3 and cleavage of PARP[1].

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

Cell Viability Assay[1]

Cell Line:	BxPC3, PC3 and MCF7 cells
Concentration:	0, 0.03, 0.1, 0.3, 1, 3 and 10 μM
Incubation Time:	72 hours
Result:	Inhibited cell viability in BxPC3, PC3 and MCF7 cells with IC_{50} values of 0.47 μM, 2.68 μM and 1.82 μM, respectively.

Western Blot Analysis[1]

Cell Line:	BxPC3 cells
Concentration:	0, 0.1, 0.3, 1, 3 and 10 μM
Incubation Time:	24 hours
Result:	Increased caspase-3 activation and PARP cleavage in BxPC3 cells.

REFERENCES

[1]. Lee Y, et, al. Generation of a poly-functionalized indolizine scaffold and its anticancer activity in pancreatic cancer cells. Bioorg Chem. 2022 Sep;126:105877.

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

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