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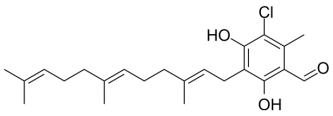
Ilicicolin A

Cat. No.:	HY-122108
CAS No.:	22581-06-2
Molecular Formula:	$C_{23}H_{31}ClO_3$
Molecular Weight:	390.94
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ilicicolin A is a potent anticancer agent. Ilicicolin A induces apoptosis. Ilicicolin A inhibits cell growth and colony formation. Ilicicolin A shows antitumor activity. Ilicicolin A has the potential for the research of prostate cancer[1].

In Vitro

Ilicicolin A (0, 2.5, 5, 10 μM; 48 h) induces apoptosis in 22Rv1, C4-2B cells[1].
Ilicicolin A (0, 2.5, 5, 10 μM) inhibits cell growth and colony formation in 22Rv1 cells and C4-2B cells in a dose-dependent manner[1].
Ilicicolin A (0, 2.5, 5, 10 μM; 48 h) decreases the protein expression of EZH2, AURKA, PLK1, FoxM1, Cyclin B2, AR, c-Myc, cyclin D1[1].
Ilicicolin A (0, 2.5, 5, 10 μM; 48 h) decreases the mRNA expression of AR, ALK2, ALK3 in a dose-dependent manner[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	22Rv1, C4-2B cells
Concentration:	0, 2.5, 5, 10 μM
Incubation Time:	96 h
Result:	Inhibited cell growth in a dose-dependent manner.

Apoptosis Analysis[1]

Cell Line:	22Rv1, C4-2B cells
Concentration:	0, 2.5, 5, 10 μM
Incubation Time:	48 h
Result:	Induced apoptosis and increased the expression of cleaved-PARP1 and cleaved caspase 7.

Western Blot Analysis[1]

Cell Line:	22Rv1, C4-2B cells
Concentration:	0, 2.5, 5, 10 μM

Incubation Time:	48 h
Result:	Decreased the expression of EZH2, AURKA, PLK1, FoxM1, Cyclin B2, AR, c-Myc, cyclin D1.

RT-PCR[1]

Cell Line:	22Rv1, C4-2B cells
Concentration:	0, 2.5, 5, 10 μM
Incubation Time:	48 h
Result:	Decreased the mRNA expression of AR, ALK2, ALK3 in a dose-dependent manner.

In Vivo

Ilicicolin A (10 mg/kg; i.p.; six times a week for 3 weeks) inhibits tumor growth in mice[1].

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

Animal Model:	Four-week-old, 18 g, male NOD/SCID mice (22Rv1 cells) [1]
Dosage:	10 mg/kg
Administration:	I.p.; six times a week for 3 weeks
Result:	Suppressed tumor growth but did not elicit a significant effect on bodyweight.

REFERENCES

[1]. Guo L, et al. Ilicicolin A Exerts Antitumor Effect in Castration-Resistant Prostate Cancer Via Suppressing EZH2 Signaling Pathway. Front Pharmacol. 2021 Oct 27;12:723729.

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