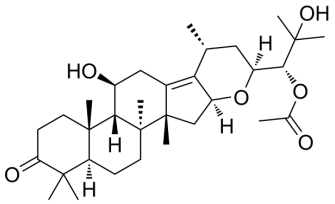
Alisol F 24-acetate

Cat. No.:	HY-107315
CAS No.:	443683-76-9
Molecular Formula:	$C_{32}H_{50}O_6$
Molecular Weight:	530.74
Target:	HBV; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Alisol F 24-acetate is a triterpene compound that can be isolated from the rhizomes of Alisma orientalis. Alisol F 24-acetate inhibits the secretion of HBV surface antigen HBsAg and HBeAg with IC_{50} values of 7.7 μM and 5.1 μM. Alisol F 24-acetate has proapoptotic activity and can be used for cancer research[1][2].

In Vitro

Alisol F 24-acetate (5, 10 and 20 μM; 24 h) increases the chemosensitivity of Doxorubicin (HY-15142A) with dose-dependent manner in MCF-7/DOX cells[2].

Alisol F 24-acetate (5, 10 and 20 μM) increases the accumulation of doxorubicin with dose-dependent manner in MCF-7/DOX cells. Alisol F 24-acetate (10 μM) increases absorption of Digoxin (HY-B1049) (AP-BL) and decreases secretion of digoxin (BL-AP) in the Caco-2 cell monolayer[2].

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

Cell Viability Assay[2]

Cell Line:	Caco-2 cells and MCF-7/DOX cells.
Concentration:	1, 2, 5, 10, 20, 50 and 100 μM.
Incubation Time:	24 h.
Result:	Significantly inhibited the cell viability (100 μM).

Apoptosis Analysis[2]

Cell Line:	MCF-7/DOX cells.
Concentration:	5, 10 and 20 μM.
Incubation Time:	0.5, 1, 2, 3 and 4 h.
Result:	Promoted the doxorubicin-induced apoptosis with time and dose dependent manner.

REFERENCES

[1]. Jiang ZY, et al. A new triterpene and anti-hepatitis B virus active compounds from Alisma orientalis. Planta Med. 2006 Aug;72(10):951-4.

[2]. Pan G, et al. Alisol F 24 Acetate Enhances Chemosensitivity and Apoptosis of MCF-7/DOX Cells by Inhibiting P-Glycoprotein-Mediated Drug Efflux. Molecules. 2016 Feb 4;21(2):183.

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