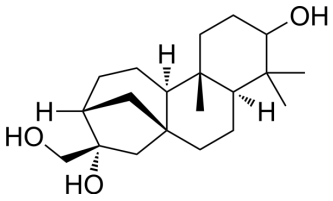
ent-Kaurane-3α,16β,17-triol

Cat. No.:	HY-N3825
CAS No.:	130855-22-0
Molecular Formula:	$C_{20}H_{34}O_3$
Molecular Weight:	322.48
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ent-Kaurane-3α,16β,17-triol (Compound 3) is an anticancer agent. ent-Kaurane-3α,16β,17-triol induces apoptosis in HCT116 cells[1].

In Vitro

ent-Kaurane-3α,16β,17-triol (Compound 3; 0-100 μM; 24 h) shows IC_{50} values of 45.5 and 29.84 μM on HepG2 and HCT116 cells, respectively[1].

ent-Kaurane-3α,16β,17-triol (20 and 30 μM; 24 h) inhibits HCT116 cell colony formation[1].

ent-Kaurane-3α,16β,17-triol (30 and 40 μM; 48 h) induces cell cycle arrest in human colon cancer cells[1].

ent-Kaurane-3α,16β,17-triol (30 and 40 μM; 72 h) induces cellular apoptosis in human colon cancer cells[1].

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

Cell Viability Assay[1]

Cell Line:	HepG2, MDA-MB-231, SCG-7901, OVCAR3 and HCT116 cells
Concentration:	0-100 μM
Incubation Time:	24 h
Result:	Showed inhibitory effects with IC_{50}s of 29.84, 45.5, >100, >100 and >100 μM against HCT116, HepG2, MDA-MB-231, SCG-7901 and OVCAR3 cells, respectively.

Cell Cycle Analysis[1]

Cell Line:	HCT116
Concentration:	30 and 40 μM
Incubation Time:	48 h
Result:	Significantly increased the cell population at the G0/G1 phase in a dosedependent manner.

Apoptosis Analysis[1]

Cell Line:	HCT116

Concentration:	30 and 40 μM
Incubation Time:	72 h
Result:	Increased the percentage of both early and late apoptotic cells.

Western Blot Analysis[1]

Cell Line:	HCT116
Concentration:	30 μM
Incubation Time:	72 h
Result:	Increased the expression levels of cleaved PARP, p27 and p53, and decreased the expression levels of cyclin D1 and CDK2.

REFERENCES

[1]. Chen X, et al. Identification of terpenoids from Rubus corchorifolius L. f. leaves and their anti-proliferative effects on human cancer cells. Food Funct. 2017 Mar 22;8(3):1052-1060.

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