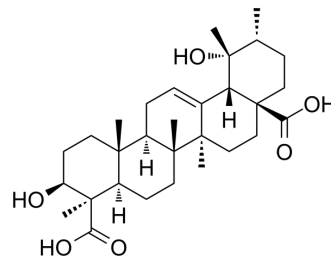


Ilexgenin A

Cat. No.:	HY-N6255
CAS No.:	108524-94-3
Molecular Formula:	C ₃₀ H ₄₆ O ₆
Molecular Weight:	502.68
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ilexgenin A is a pentacyclic triterpenoid, which extracted from <i>Ilex hainanensis</i> Merr. Ilexgenin A can be used for the research of inflammation and cancer ^[1] .	
In Vitro	<p>Ilexgenin A (0~100 μM; 24 hours; HT 29 and HCT 116 cells) effectively decreases cell viability in HT 29 and HCT 116 cells^[1].</p> <p>Ilexgenin A (12.5~50 μM; 24 hours; HT 29 cells) downregulates the expression of SREBP-1, inhibits the translocation of SREBP-1 to the nucleus and decreases the content of TG^[1].</p> <p>Ilexgenin A (12.5~50 μM; HT 29 and HCT 116 cells) induces cell cycle arrest at G1 phase in colon cancer cells^[1].</p> <p>Ilexgenin A (12.5~50 μM; 24 hours; HCT 116 cells) modulates lipid metabolism. Ilexgenin A (50 μM; 24 hours; HT 29 and HCT 116 cells) regulates SREBP-1 by inhibiting HIF1α^[1].</p> <p>Ilexgenin A inhibits fatty acids synthesis^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Cell Viability Assay ^[1]	
	Cell Line:	HT 29 and HCT 116 cells
	Concentration:	0~100 μM
	Incubation Time:	24 hours
	Result:	Effectively decreased cell viability in HT 29 and HCT 116 cells.
	Western Blot Analysis ^[1]	
	Cell Line:	HT 29 cells
	Concentration:	12.5~50 μM
	Incubation Time:	24 hours
Result:	Downregulated the expression of SREBP-1.	
RT-PCR ^[1]		
Cell Line:	HT 29 cells	

	Concentration:	12.5~50 μ M
	Incubation Time:	24 hours
	Result:	Decreased the content of TG.
	Immunofluorescence ^[1]	
	Cell Line:	HT 29 cells
	Concentration:	12.5~50 μ M
	Incubation Time:	24 hours
	Result:	Inhibited the translocation of SREBP-1 to the nucleus.
In Vivo	<p>Ilexgenin A (20 mg/kg) ameliorates the AOM/DSS induced carcinogenesis. Ilexgenin A can regulate lipid metabolism. Ilexgenin A decreases the expression of SREBP-1 and HIF 1α in AOM/DSS mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Zhang L, et al. Ilexgenin A prevents early colonic carcinogenesis and reprogramed lipid metabolism through HIF1 α /SREBP-1. *Phytomedicine*. 2019;63:153011.

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

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