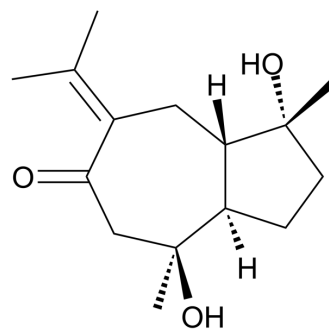


Zedoarondiol

Cat. No.:	HY-122915
CAS No.:	98644-24-7
Molecular Formula:	C ₁₅ H ₂₄ O ₃
Molecular Weight:	252.35
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Zedoarondiol, a sesquiterpene lactone compound, with antioxidant and anti-inflammatory activity. Zedoarondiol can be used for atherosclerosis research ^{[1][2]} .
In Vitro	<p>Zedoarondiol (5-20 µg/mL) attenuates HUVECs injury, up-regulated SOD activity, suppressed formation of MDA and ROS, and secretion and protein expression of IL-1β, TNF-α, and MCP-1 in injured HUVECs induced by oxidized low-density lipoprotein (ox-LDL)^[1].</p> <p>Zedoarondiol induces nuclear Nrf2 translocation from cytoplasm into nucleus and up-regulated expression of HO-1, NQO1, and Nrf2 in nucleus^[1].</p> <p>Zedoarondiol suppresses PDGF-BB-induced vascular smooth muscle cells (VSMCs) proliferation and DNA synthesis, and induces cell cycle arrest in G0/G1 phase. In addition, Zedoarondiol activates AMPK and ACC, inhibited the phosphorylation of mTOR and p70S6K, increases the expression of p53 and p21, and decreases the expression of CDK2 and cyclin E^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Huimin Mao, et al. Zedoarondiol Attenuates Endothelial Cells Injury Induced by Oxidized Low-Density Lipoprotein via Nrf2 Activation. *Cell Physiol Biochem*. 2018;48(4):1468-1479.

[2]. Huimin Mao, et al. Zedoarondiol Inhibits Platelet-Derived Growth Factor-Induced Vascular Smooth Muscle Cells Proliferation via Regulating AMP-Activated Protein Kinase Signaling Pathway. *Cell Physiol Biochem*. 2016;40(6):1506-1520.

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

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