



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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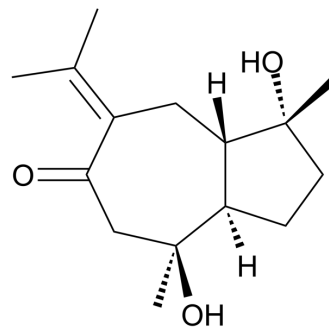
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## Zedoarondiol

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-122915                                                                                        |
| CAS No.:           | 98644-24-7                                                                                       |
| Molecular Formula: | C <sub>15</sub> H <sub>24</sub> O <sub>3</sub>                                                   |
| Molecular Weight:  | 252.35                                                                                           |
| Target:            | Reactive Oxygen Species                                                                          |
| Pathway:           | Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB                                        |
| Storage:           | -20°C, protect from light<br>* 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 <sup>[1][2]</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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)<sup>[1]</sup>.</p> <p>Zedoarondiol induces nuclear Nrf2 translocation from cytoplasm into nucleus and up-regulated expression of HO-1, NQO1, and Nrf2 in nucleus<sup>[1]</sup>.</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<sup>[1]</sup>.</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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