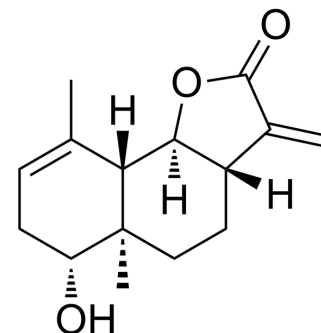


Santamarine

Cat. No.:	HY-N1326
CAS No.:	4290-13-5
Molecular Formula:	C ₁₅ H ₂₀ O ₃
Molecular Weight:	248.32
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Santamarine (Santamarin), a sesquiterpene lactone, increases HO-1 expression through Nrf2 translocation and suppresses NO, PGE₂, TNF-α, and IL-1β production through inhibition of NF-κB translocation in LPS-induced macrophages. Santamarine shows anti-photoaging properties via inhibition of MAPK/AP-1 and stimulation of TGF-β/Smad signaling in UVA-irradiated human dermal fibroblasts (HDFs). Antioxidant activities^{[1][2]}.

REFERENCES

[1]. Choi HG, et al. Santamarin, a sesquiterpene lactone isolated from *Saussurea lappa*, represses LPS-induced inflammatory responses via expression of heme oxygenase-1 in murine macrophage cells. *Int Immunopharmacol.* 2012;13(3):271-279.

[2]. Oh JH, et al. Santamarine Shows Anti-Photoaging Properties via Inhibition of MAPK/AP-1 and Stimulation of TGF-β/Smad Signaling in UVA-Irradiated HDFs. *Molecules.* 2021;26(12):3585. Published 2021 Jun 11.

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

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