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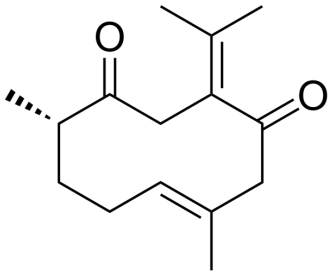
Dehydrocurdione

Cat. No.:	HY-N8160
CAS No.:	38230-32-9
Molecular Formula:	$C_{15}H_{22}O_2$
Molecular Weight:	234.33
Target:	Keap1-Nrf2; Reactive Oxygen Species
Pathway:	NF-κB; Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Dehydrocurdione, a zedoary-derived sesquiterpene, induces heme oxygenase (HO)-1, an antioxidative enzyme, in RAW 264.7 macrophages. Dehydrocurdione interacts with Keap1, resulting in Nrf2 translocation followed by activation of the HO-1 E2 enhancer. Dehydrocurdione suppresses lipopolysaccharide-induced NO release, a marker of inflammation. Anti-inflammatory activity[1][2].

In Vitro

Dehydrocurdione (RAW 264.7 cells) concentration-dependently increases the HO-1 mRNA level for 3 hr and the protein level for 6 hr, and both effects reached significance at a concentration of 100 μM[1].
Dehydrocurdione interacts with Keap, resulting in Nrf2 translocation followed by activation ofthe HO-1 E2 enhancer[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	RAW 264.7 cells
Concentration:	100 μM
Incubation Time:	24 hours
Result:	Transiently increased the HO-1 protein level, and its effect peaked at 3-6 hr.

In Vivo

Dehydrocurdione (P.o ;120 mg/kg, daily for 12 days) significantly reduces chronic adjuvant arthritis[2].
Dehydrocurdione (200 mg/kg; p.o.; Sprague-Dawley rats) dose-dependently inhibits carrageenan-induced paw edema[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wistar rats[2]
Dosage:	120 mg/kg
Administration:	P.o ; daily for 12 days
Result:	Significantly reduces chronic adjuvant arthritis.

REFERENCES

[1]. Ohnishi M, et al. Curcuma sp.-derived dehydrocurdione induces heme oxygenase-1 through a Michael reaction between its α, β-unsaturated carbonyl and Keap1. Phytother Res. 2018;32(5):892-897.

[2]. Yoshioka T, et al. Antiinflammatory potency of dehydrocurdione, a zedoary-derived sesquiterpene. Inflamm Res. 1998;47(12):476-481.

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