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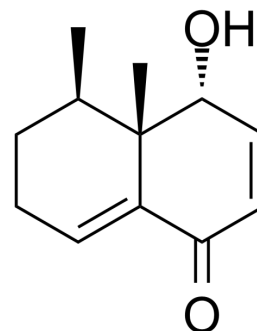
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Desoxo-narchinol A

Cat. No.:	HY-N8435
CAS No.:	53859-06-6
Molecular Formula:	C ₁₂ H ₁₆ O ₂
Molecular Weight:	192.25
Target:	TNF Receptor; COX; NO Synthase; PGE synthase
Pathway:	Apoptosis; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desoxo-narchinol A is an orally active and potent anti-inflammatory agent. Desoxo-narchinol A can be isolated from the roots and rhizomes of <i>Nardostachys jatamansi</i> . Desoxo-narchinol A can be used for septic shock and inflammatory diseases research ^{[1][2][3]} .
In Vitro	Desoxo-narchinol A inhibits tissue injury and production of pro-inflammatory cytokines, such as IL-1 β , IL-6, and TNF- α , in the liver and lung ^[2] . Desoxo-narchinol A (0-500 nM, 24 h) inhibits the production of inflammatory mediators, such as iNOS and its derivative NO, COX-2, PGE ₂ , IL-1 β , IL-6 and TNF- α and H3 protein acetylation in murine peritoneal macrophages ^[2] . Desoxo-narchinol A inhibits LPS-induced activation of p38 in murine macrophages ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Desoxo-narchinol A (0-0.5 mg/kg, IP, once) dramatically reduced mortality in a murine LPS-induced endotoxin shock model ^[2] . Desoxo-narchinol A (50 mg/kg, PO, once) shows the oral bioavailability of 18.1% in rats and 28.4% in mice ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Itokawa H, et al. Cytotoxic sesquiterpenes from *Nardostachys chinensis*. Chem Pharm Bull (Tokyo). 1993 Jun;41(6):1183-4.
- [2]. Shin JY, et al. Anti-inflammatory effect of desoxo-narchinol-A isolated from *Nardostachys jatamansi* against lipopolysaccharide. Int Immunopharmacol. 2015 Dec;29(2):730-738.
- [3]. Thapa SK, Upadhyay M, Kim TH, Shin S, Park SJ, Shin BS. Liquid Chromatography-Tandem Mass Spectrometry of Desoxo-Narchinol a and Its Pharmacokinetics and Oral Bioavailability in Rats and Mice. Molecules. 2019 May 28;24(11):2037.

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

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