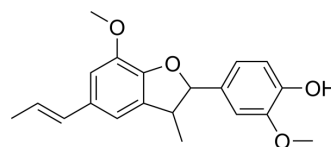


Dehydrodiisoeugenol

Cat. No.:	HY-N0589												
CAS No.:	2680-81-1												
Molecular Formula:	C ₂₀ H ₂₂ O ₄												
Molecular Weight:	326.39												
Target:	NF-κB; COX; Bacterial												
Pathway:	NF-κB; Immunology/Inflammation; Anti-infection												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (306.38 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.0638 mL	15.3191 mL	30.6382 mL
	5 mM	0.6128 mL	3.0638 mL	6.1276 mL
	10 mM	0.3064 mL	1.5319 mL	3.0638 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.37 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.37 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.37 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Dehydrodiisoeugenol is isolated from <i>Myristica fragrans</i> Houutt, shows anti-inflammatory and anti-bacterial actions ^[1] . Dehydrodiisoeugenol inhibits LPS- stimulated NF-κB activation and cyclooxygenase (COX)-2 gene expression in murine macrophages ^[2] .
IC₅₀ & Target	NF-κB; COX-2 ^[2]

CUSTOMER VALIDATION

- Front Cell Dev Biol. 2021 Jun 11;9:684393.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Murakami Y, et al. Dehydrodiisoeugenol, an isoeugenol dimer, inhibits lipopolysaccharide-stimulated nuclear factor kappa B activation and cyclooxygenase-2 expression in macrophages. Arch Biochem Biophys. 2005 Feb 15;434(2):326-32.
- [2]. Lv QQ, et al. Metabolic profiling of dehydrodiisoeugenol using xenobiotic metabolomics. J Pharm Biomed Anal. 2017 Oct 25;145:725-733.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA