

Dehydrodiisoeugenol

Chemical Properties

CAS No. : 2680-81-1

Formula: C₂₀H₂₂O₄

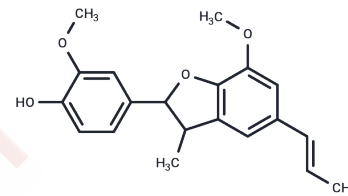
Molecular Weight: 326.39

Keep away from direct sunlight, Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	1. Dehydrodiisoeugenol has anti-inflammatory activity. (1). Dehydrodiisoeugenol inhibited the expression of the COX-2 in RAW264.7 murine macrophages stimulated with LPS. (2). Dehydrodiisoeugenol inhibited LPS-stimulated phosphorylation-dependent proteolysis of inhibitor κ B- α and transcriptional activity of NF- κ B in the cells.
Targets(IC50)	NF- κ B, Antibacterial, COX

Solubility Information

Solubility	DMSO: 59 mg/mL (180.77 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.13 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0613 mL	0.3064 mL	0.6128 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Li F , Yang X W . Metabolism of the Lignan Dehydrodiisoeugenol in Rats[J]. Planta Medica, 2011, 77(15):1712-1717.

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