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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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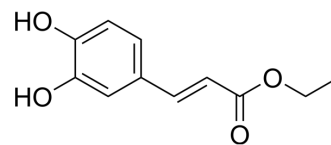
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Ethyl Caffeate

Cat. No.:	HY-N6966
CAS No.:	102-37-4
Molecular Formula:	C ₁₁ H ₁₂ O ₄
Molecular Weight:	208.21
Target:	NF-κB; NO Synthase; COX; PGE synthase
Pathway:	NF-κB; Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1200.71 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg
				5 mg
				10 mg
				10 mM
1 mM	4.8028 mL	24.0142 mL	48.0284 mL	
5 mM	0.9606 mL	4.8028 mL	9.6057 mL	
10 mM	0.4803 mL	2.4014 mL	4.8028 mL	
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.99 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Ethyl Caffeate is a natural phenolic compound isolated from <i>Bidens pilosa</i> . Ethyl caffeate suppresses NF-κB activation and its downstream inflammatory mediators, inducible nitric oxide synthase (iNOS), cyclooxygenase-2 (COX-2), and prostaglandin E ₂ (PGE ₂) in vitro or in mouse skin ^[1] .		
IC ₅₀ & Target	iNOS	NF-κB	COX-2
In Vitro	Ethyl Caffeate markedly suppresses the lipopolysaccharide (LPS)-induced nitric oxide (NO) production with IC ₅₀ of 5.5 μg/ml [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Chiang YM, et al. Ethyl caffeate suppresses NF-kappaB activation and its downstream inflammatory mediators, iNOS, COX-2, and PGE2 in vitro or in mouse skin. Br J Pharmacol. 2005 Oct;146(3):352-63.

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

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