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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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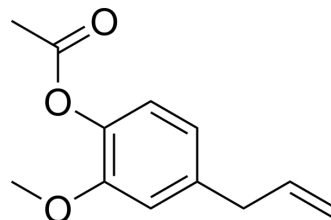
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Eugenol acetate

Cat. No.:	HY-W014612
CAS No.:	93-28-7
Molecular Formula:	C ₁₂ H ₁₄ O ₃
Molecular Weight:	206.24
Target:	Fungal; Bacterial; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (484.87 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	4.8487 mL	24.2436 mL	48.4872 mL
		5 mM	0.9697 mL	4.8487 mL	9.6974 mL
		10 mM	0.4849 mL	2.4244 mL	4.8487 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: ≥ 2.5 mg/mL (12.12 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Eugenol acetate (Eugenyl acetate) is an antibacterial, anticancer, anti-inflammatory and antioxidant. Eugenol acetate inhibits NF-κB and enhances the expression of p53 and p21 (WAF1). Eugenol acetate can prevent chemically induced skin cancer, inhibit cancer cell proliferation and induce apoptosis ^{[1][2][3][4]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vivo	Eugenol acetate (15% v/v for 30 μL; twice per wk for 28 wk) causes increased expression of p53 and p21WAF1 in mouse skin, and apoptosis in cancer tissue^[2]. Eugenol acetate (3-300 mg/kg; po or ip, single dose) can exert an analgesic effect and inhibit different mouse acute pain

models caused by acetic acid, glutamate, and kainic acid, respectively^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Acute pain model in mice ^[3]
Dosage:	3-300 mg/kg
Administration:	Oral (p.o.) or i.p. routes 60 or 30 min before the acetic acid injection, respectively.
Result:	Produced a marked and dose-related inhibition of acetic acid-induced abdominal constrictions in mice, with mean ID ₅₀ values (and their 95% confidence limits) of 51.3 (23.5-111.9) and 50.2 (38.4-65.6) mg/kg and inhibitions of 82 ± 10% and 90 ± 6% for the p.o. and i.p. treatments, respectively.

REFERENCES

[1]. Musthafa KS, et al. Antifungal potential of eugenyl acetate against clinical isolates of Candida species. Microb Pathog. 2016 Oct;99:19-29.

[2]. Dal Bó W, et al. Eugenol reduces acute pain in mice by modulating the glutamatergic and tumor necrosis factor alpha (TNF-α) pathways. Fundam Clin Pharmacol. 2013 Oct;27(5):517-25

[3]. Kaur G, et al. Eugenol precludes cutaneous chemical carcinogenesis in mouse by preventing oxidative stress and inflammation and by inducing apoptosis. Mol Carcinog. 2010 Mar;49(3):290-301.

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

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