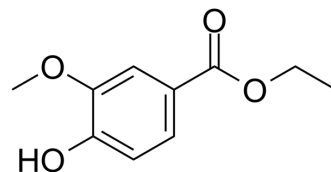


Ethyl Vanillate

Cat. No.:	HY-B1643		
CAS No.:	617-05-0		
Molecular Formula:	C ₁₀ H ₁₂ O ₄		
Molecular Weight:	196.2		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	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 (509.68 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	5.0968 mL	25.4842 mL
	5 mM	1.0194 mL	5.0968 mL	
	10 mM	0.5097 mL	2.5484 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 (12.74 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Ethyl Vanillate is a fungicidal agent. Ethyl Vanillate inhibits 17β-HSD2 with an IC ₅₀ 1.3 μM ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 1.3 μM (17β-HSD2) ^[1]

REFERENCES

[1]. Engeli RT, et al. Interference of Paraben Compounds with Estrogen Metabolism by Inhibition of 17 β -Hydroxysteroid Dehydrogenases. Int J Mol Sci. 2017 Sep 19;18(9). pii: E2007.

[2]. COHEN R, et al. Four new fungicides for Coccidioides immitis: 1. Sodium caprylate. 2. Ethyl vanillate 3. Fradycin. 4. Thiolutin. Arch Pediatr. 1951 Jun;68(6):259-64.

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

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