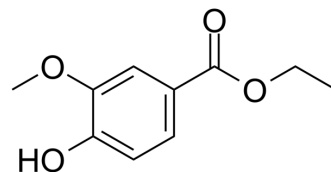


## Ethyl Vanillate

Cat. No.:	HY-B1643		
CAS No.:	617-05-0		
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> O <sub>4</sub>		
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		10 mg	
	1 mM	5.0968 mL	25.4842 mL	50.9684 mL
	5 mM	1.0194 mL	5.0968 mL	10.1937 mL
	10 mM	0.5097 mL	2.5484 mL	5.0968 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 <sub>50</sub> 1.3 μM <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 1.3 μM (17β-HSD2) <sup>[1]</sup>

### REFERENCES

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[1]. Engeli RT, et al. Interference of Paraben Compounds with Estrogen Metabolism by Inhibition of 17 $\beta$ -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.

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

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