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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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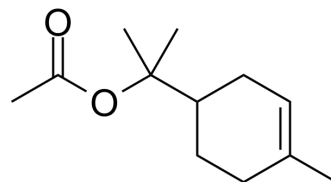
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α -Terpinyl acetate

Cat. No.:	HY-N7136		
CAS No.:	80-26-2		
Molecular Formula:	C ₁₂ H ₂₀ O ₂		
Molecular Weight:	196.29		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-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 (509.45 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.0945 mL	25.4725 mL	50.9450 mL
		5 mM	1.0189 mL	5.0945 mL	10.1890 mL
10 mM		0.5095 mL	2.5473 mL	5.0945 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 2.5 mg/mL (12.74 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: \geq 2.5 mg/mL (12.74 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.5 mg/mL (12.74 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	α -Terpinyl acetate is a monoterpene ester isolated from <i>Laurus nobilis</i> L. essential oil. α -Terpinyl acetate is a competitive P450 2B6 substrate which binding to the active site of P450 2B6 with a K_d value of 5.4 μ M ^{[1][2]} .
IC₅₀ & Target	CYP2B6 5.4 μ M (Kd)
In Vitro	The bupropion hydroxylation activity of P450 2B6 is inhibited by α -Terpinyl acetate with an IC ₅₀ value of 10.4 μ M and α -

Terpinyl acetate is determined to be a competitive inhibitor of P450 2B6 with a K_i of 7.6 μM ^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Fidan H, et al. Chemical Composition and Antimicrobial Activity of *Laurus nobilis* L. Essential Oils from Bulgaria. *Molecules*. 2019 Feb 22;24(4).
- [2]. Lee Y, et al. Inhibitory effect of α -terpinyl acetate on cytochrome P450 2B6 enzymatic activity. *Chem Biol Interact*. 2018 Jun 1;289:90-97.
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Caution: Product has not been fully validated for medical applications. For research use only.

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