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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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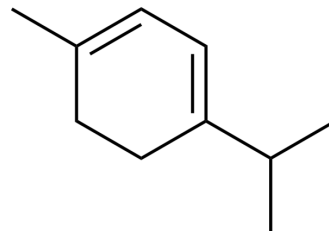
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α-Terpinene

Cat. No.:	HY-W020182		
CAS No.:	99-86-5		
Molecular Formula:	C ₁₀ H ₁₆		
Molecular Weight:	136.23		
Target:	Fungal; Parasite		
Pathway:	Anti-infection		
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 (734.05 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	7.3405 mL	36.7026 mL	73.4053 mL
	5 mM	1.4681 mL	7.3405 mL	14.6811 mL
	10 mM	0.7341 mL	3.6703 mL	7.3405 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 (18.35 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	α-Terpinene (Terpilene) is a monoterpene found in the essential oils of a large variety of foods and aromatic plants such as <i>Mentha piperita</i> . α-Terpinene is active against <i>Trypanosoma evansi</i> and has the potential for trypanosomiasis treatment. α-Terpinene has antioxidant and antifungal properties ^{[1][2][3][4]} .
IC ₅₀ & Target	Trypanosoma

REFERENCES

- [1]. Matheus D Baldissera, et al. In Vitro and in Vivo Action of terpinen-4-ol, γ -Terpinene, and α -Terpinene Against Trypanosoma Evansi. *Exp Parasitol*. 2016 Mar;162:43-8.
- [2]. Patricia R Quiroga, et al. Contribution of Organic Acids to α -Terpinene Antioxidant Activity. *Food Chem*. 2019 Mar 30;277:267-272.
- [3]. Johanna Rudbäck, et al. α -Terpinene, an Antioxidant in Tea Tree Oil, Autoxidizes Rapidly to Skin Allergens on Air Exposure. *Chem Res Toxicol*. 2012 Mar 19;25(3):713-21.
- [4]. B Oliva, et al. Antimycotic Activity of Melaleuca Alternifolia Essential Oil and Its Major Components. *Lett Appl Microbiol*. 2003;37(2):185-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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