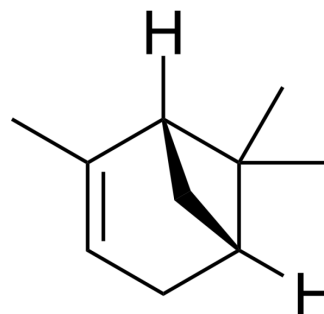


(1R)- α -Pinene

Cat. No.:	HY-Y0739
CAS No.:	7785-70-8
Molecular Formula:	C ₁₀ H ₁₆
Molecular Weight:	136.23
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (734.05 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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: \geq 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: \geq 2.5 mg/mL (18.35 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.5 mg/mL (18.35 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	(1R)- α -Pinene is a volatile monoterpene with antimicrobial activities. (1R)- α -Pinene reduces <i>Bacillus cereus</i> population growth, and exhibits repellent effects ^{[1][2]} .
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REFERENCES

[1]. David I Yates, et al. *Sciadopitys verticillata* Resin: Volatile Components and Impact on Plant Pathogenic and Foodborne Bacteria. *Molecules*. 2019 Oct 19;24(20):3767.

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

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