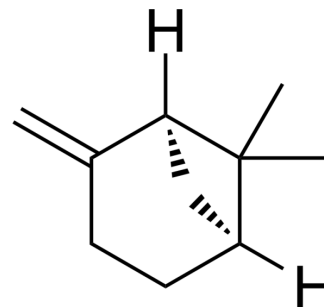


β-Pinene

Cat. No.:	HY-N0550		
CAS No.:	18172-67-3		
Molecular Formula:	C ₁₀ H ₁₆		
Molecular Weight:	136.23		
Target:	Bacterial		
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)

Concentration	Solvent	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

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 6.25 mg/mL (45.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 6.25 mg/mL (45.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 6.25 mg/mL (45.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

β-Pinene ((-)-β-Pinene), a major component of turpentine, inhibit infectious bronchitis virus (IBV) with an IC₅₀ of 1.32 mM. β-Pinene presents antimicrobial activity^{[1][2]}.

REFERENCES

- [1]. Guzmán-Gutiérrez SL, et al. Linalool and β-pinene exert their antidepressant-like activity through the monoaminergic pathway. *Life Sci.* 2015 May 1;128:24-9.

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

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