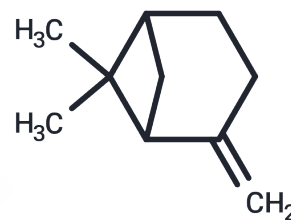


(-)- $\beta$ -pinene

## Chemical Properties

CAS No. :	18172-67-3
Formula:	C <sub>10</sub> H <sub>16</sub>
Molecular Weight:	136.23
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(-)- $\beta$ -pinene (Nopinene) is inhibit infectious bronchitis virus (IBV) with an IC <sub>50</sub> of 1.32 mM,with antimicrobial activity
Targets(IC <sub>50</sub> )	Antibacterial

## Solubility Information

Solubility	DMSO: 30 mg/mL (220.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (36.7 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1468 mL	0.7341 mL	1.4681 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yang Z , et al. Comparative anti-infectious bronchitis virus (IBV) activity of (-)-pinene: effect on nucleocapsid (N) protein. *Molecules*. 2011 Jan 25;16(2):1044-54.

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

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