

Catalog Number: CM08029

## 产品信息

**Catalog Number:**  
CM08029

**CAS号:**  
7785-26-4

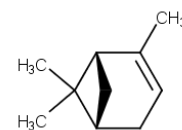
**分子式:**  
C<sub>10</sub>H<sub>16</sub>

**主要靶点:**  
Endogenous  
Metabolite|Antibacterial|Virus  
Protease|GABA Receptor

**主要通路:**  
代谢|离子通道|神经科学|微生物学

**分子量:**  
136.23

**溶解度:**  
DMSO:50 mg/mL (367.03  
mM), Sonification is  
recommended.



## 体外活性

(1S)-(-)-Alpha-Pinene significantly increased the duration of non-rapid eye movement sleep (NREMS) and reduced the sleep latency by oral administration without affecting duration of rapid eye movement sleep and delta activity. (1S)-(-)-Alpha-Pinene potentiated the GABAA receptor-mediated synaptic response by increasing the decay time constant of sIPSCs in hippocampal CA1 pyramidal neurons[1]. These effects of (1S)-(-)-Alpha-Pinene on sleep and inhibitory synaptic response were mimicked by zolpidem, acting as a modulator for GABAA-BZD receptors, and fully antagonized by flumazenil, an antagonist for GABAA-BZD receptor. (1S)-(-)-Alpha-Pinene was found to bind to aromatic residues of  $\alpha$  1- and - $\gamma$  2 subunits of GABAA-BZD receptors in the molecular model[1].

## 描述

(1S)-(-)-Alpha-Pinene enhances the quantity of NREMS without affecting the intensity of NREMS by prolonging GABAergic synaptic transmission, acting as a partial modulator of GABAA-BZD receptors and directly binding to the BZD binding site of GABAA receptor.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years