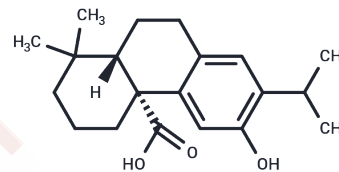


## Pisiferic acid

## Chemical Properties

CAS No. :	67494-15-9
Formula:	C <sub>20</sub> H <sub>28</sub> O <sub>3</sub>
Molecular Weight:	316.43
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	Pisiferic acid is a diterpene antibacterial agent isolated from <i>Chamaecyparis pisifera</i> . This product exhibits potent inhibitory activity against various Gram-positive bacteria, such as <i>Staphylococcus aureus</i> and <i>Bacillus subtilis</i> , with MIC values typically ranging from 1.56 to 12.5 µg/mL. Additionally, it shows moderate inhibitory effects against certain Gram-negative bacteria, such as <i>Proteus vulgaris</i> . It serves as a pharmacological tool for researching natural antibiotics and their structure-activity relationships.
Targets(IC50)	Others
In vitro	Pisiferic acid exhibits potent selective antibacterial activity against Gram-positive strains ( <i>S. aureus</i> 209P and <i>B. subtilis</i> PCI 219, MIC=1.56 µg/mL), while showing significantly lower efficacy against Gram-negative <i>P. vulgaris</i> OX 19 (MIC=100 µg/mL) [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (252.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1603 mL	15.8013 mL	31.6026 mL
5 mM	0.6321 mL	3.1603 mL	6.3205 mL
10 mM	0.316 mL	1.5801 mL	3.1603 mL
50 mM	0.0632 mL	0.316 mL	0.6321 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

Koji Kobayashi, et al. Antibacterial Activity of Pisiferic Acid and Its Derivatives against Gram-negative and -positive Bacteria. Agric Biol Chem. 1988 Jan 1;52(1): 77-83.

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