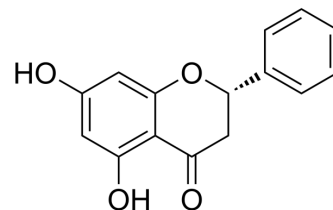


Pinocembrin

Cat. No.:	HY-N0575												
CAS No.:	480-39-7												
Molecular Formula:	C ₁₅ H ₁₂ O ₄												
Molecular Weight:	256.25												
Target:	Bacterial; Reactive Oxygen Species; Autophagy												
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Autophagy												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (325.19 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9024 mL	19.5122 mL	39.0244 mL
		5 mM	0.7805 mL	3.9024 mL	7.8049 mL
		10 mM	0.3902 mL	1.9512 mL	3.9024 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.12 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Pinocembrin ((+)-Pinocembrin) is a flavonoid found in propolis, acts as a competitive inhibitor of histidine decarboxylase, and is an effective anti-allergic agent, with antioxidant, antimicrobial and anti-inflammatory properties ^[1] .
In Vitro	Pinocembrin (5, 10, 25, 50, 100 or 200 μM, 24 hours) significantly reduces cell viability of RBL-2H3 cells ^[1] . Pinocembrin (25 or 50 μM) suppresses iNOS, PGE-2 and COX-2 levels, increases p38-Mapk and IκB-α, and inhibits phosphorylation of IκB-α ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	RBL-2H3 cells
Concentration:	5, 10, 25, 50, 100 or 200 μ M
Incubation Time:	24 hours
Result:	Decreased cell viability by \approx 50% at \geq 100 μ M. Showed 75% cell viability at lower concentrations.

CUSTOMER VALIDATION

- DNA Cell Biol. 2021 Sep 28.
- J Neurophysiol. 2022 Jan 5.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hanieh H, et al. Pinocembrin, a novel histidine decarboxylase inhibitor with anti-allergic potential in in vitro. Eur J Pharmacol. 2017 Nov 5;814:178-186.

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

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