

## Camellianin B

## Chemical Properties

CAS No. :	109232-76-0
Formula:	C <sub>27</sub> H <sub>30</sub> O <sub>14</sub>
Molecular Weight:	578.52
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	Camellianin B, a flavonoid compound and metabolite of Camellianin A, exhibits antioxidant properties and acts as an angiotensin converting enzyme (ACE) inhibitor.
Targets(IC50)	RAAS
In vitro	At a concentration of 500 µg/mL, Camellianin B exhibits an ACE (angiotensin-converting enzyme) inhibitory activity of 40.68%. Additionally, Camellianin B demonstrates a DPPH (2,2-diphenyl-1-picrylhydrazyl) radical scavenging activity, with an IC <sub>50</sub> value of 1.8 mg/mL[2].
In vivo	Camellianin B demonstrates extensive tissue distribution, including penetration into the brain[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7285 mL	8.6427 mL	17.2855 mL
5 mM	0.3457 mL	1.7285 mL	3.4571 mL
10 mM	0.1729 mL	0.8643 mL	1.7285 mL
50 mM	0.0346 mL	0.1729 mL	0.3457 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

Yunliang Zheng, et al. Pharmacokinetics and tissue distribution study of camellianin A and its major metabolite in rats by liquid chromatography with tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Aug 1;997:200-9.

Benguo Liu, et al. Antioxidant and angiotensin converting enzyme (ACE) inhibitory activities of ethanol extract and pure flavonoids from *Adinandra nitida* leaves. *Pharm Biol.* 2010 Dec;48(12):1432-8.

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