

Camellianin A

Chemical Properties

CAS No. : 109232-77-1

Formula: C₂₉H₃₂O₁₅

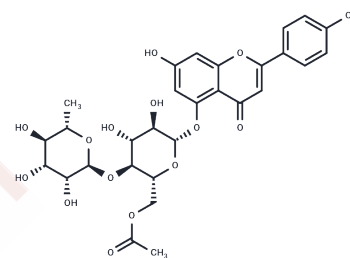
Molecular Weight: 620.56

Store at low temperature, Keep away from direct sunlight

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Camellianin A is a flavonoid series of compounds derived from <i>A. nitida</i> and tea that exhibits anticancer activity, inhibits angiotensin-converting enzyme (ACE) activity, and promotes apoptosis in Hep G2 and MCF-7 cells. Camellianin A prevents CCl ₄ -induced liver injury by exerting anti-oxidative stress, anti-inflammatory, and anti-apoptotic properties.
Targets(IC50)	Apoptosis, RAAS
In vitro	Camellianin A inhibits proliferation of human liver cancer Hep G2 cells and human breast cancer MCF-7 cells in a dose-dependent manner, inducing a significant increase in G ₀ /G ₁ cell cycle arrest[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6114 mL	8.0572 mL	16.1145 mL
5 mM	0.3223 mL	1.6114 mL	3.2229 mL
10 mM	0.1611 mL	0.8057 mL	1.6114 mL
50 mM	0.0322 mL	0.1611 mL	0.3223 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

Gao H, et al. Anti-proliferative effect of camellianin A in Adinandra nitida leaves and its apoptotic induction in human Hep G2 and MCF-7 cells. *Molecules*. 2010 May 28;15(6):3878-86.

Liu B, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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