

Cinnamtannin A2

Chemical Properties

CAS No. : 86631-38-1

Formula: C60H50O24

Molecular Weight: 1155.02

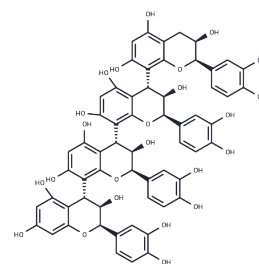
Storage:

Keep away from moisture, Store at low temperature,

Keep away from direct sunlight

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	Cinnamtannin A2 is a natural product and procyanidin tetramer that enhances GLP-1 and insulin secretion in mice. It protects against renal injury by reducing KIM-1 and NGAL expression and exhibits antioxidant activity.
Targets(IC50)	Antioxidant, Glucagon Receptor
In vitro	Cinnamtannin A2 (0.125-2.0 µg/mL) exhibited concentration-dependent antioxidant activity by prolonging the lag time of LDL oxidation induced by copper ions or MeO-AMVN, but its effect was weaker than that of the monomers and other oligomers of Senegalia catechu camellia sinensis [3].
In vivo	Cinnamtannin A2 (10 mg/kg, i.p. for the period 30 days) ameliorates the altered level of creatinine, blood urea nitrogen (BUN), Neutrophil gelatinase-associated lipocalin (NGAL), Kidney Injury Molecule-1 (KIM-1), and cytokines in the serum and microalbuminuria in the urine of 5/6 nephrectomized rats [2].

Solubility Information

Solubility	Ethanol: ≥ 40 mg/mL, 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	0.8658 mL	4.3289 mL	8.6579 mL
5 mM	0.1732 mL	0.8658 mL	1.7316 mL
10 mM	0.0866 mL	0.4329 mL	0.8658 mL
50 mM	0.0173 mL	0.0866 mL	0.1732 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

Yamashita Y, et, al. Cinnamtannin A2, a tetrameric procyanidin, increases GLP-1 and insulin secretion in mice.

Biosci Biotechnol Biochem. 2013;77(4):888-91.

Li N, et, al. Cinnamtannin A2 protects the renal injury by attenuates the altered expression of kidney injury molecule 1 (KIM-1) and neutrophil gelatinase-associated lipocalin (NGAL) expression in 5/6 nephrectomized rat model. AMB Express. 2020 May 8;10(1):87.

Osakabe N, et, al. Catechins and their oligomers linked by C4 --> C8 bonds are major cacao polyphenols and protect low-density lipoprotein from oxidation in vitro. Exp Biol Med (Maywood). 2002 Jan;227(1):51-6.

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