

Cinnamtannin B-1

Chemical Properties

CAS No. : 88082-60-4

Formula: C₄₅H₃₆O₁₈

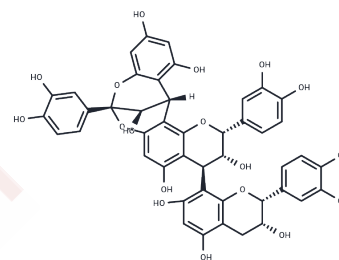
Molecular Weight: 864.76

Storage:

Store at low temperature, Keep away from direct sunlight, Store under nitrogen

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 B-1 (LDN 0022358) is an A-type proanthocyanidin contained in several plant species such as <i>Vaccinium vitis-idaea</i> , <i>Laurus nobilis</i> L., <i>Cinnamomum zeylanicum</i> , and <i>Lindera umbellata</i> . It is a potent antioxidant and protective agent against oxidative stress and apoptosis in human platelets. It is a Cox-2 inhibitor.
Targets(IC50)	Apoptosis, Antioxidant, NF-κB, Reactive Oxygen Species, COX, ROS

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1564 mL	5.782 mL	11.5639 mL
5 mM	0.2313 mL	1.1564 mL	2.3128 mL
10 mM	0.1156 mL	0.5782 mL	1.1564 mL
50 mM	0.0231 mL	0.1156 mL	0.2313 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

- Ito Y, Ohmori K, Suzuki K. Annulation approach to doubly linked (A-type) oligocatechins: syntheses of (+)-procyanidin A₂ and (+)-cinnamtannin B₁. *Angew Chem Int Ed Engl.* 2014 Sep 15;53(38):10129-33. doi: 10.1002/anie.201405600. Epub 2014 Jul 28. PubMed PMID: 25070773.
- Wen L, You L, Yang X, Yang J, Chen F, Jiang Y, Yang B. Identification of phenolics in litchi and evaluation of anticancer cell proliferation activity and intracellular antioxidant activity. *Free Radic Biol Med.* 2015 Jul;84:171-184. doi: 10.1016/j.freeradbiomed.2015.03.023. Epub 2015 Apr 7. PubMed PMID: 25857215.
- Taher M, Abdul Majid FA, Sarmidi MR. Cinnamtannin B1 activity on adipocytes formation. *Med J Malaysia.* 2004 May;59 Suppl B:97-8. PubMed PMID: 15468836.
- Gonzalez A, Santofimia-Castaño P, Rivera-Barreno R, Salido GM. Cinnamtannin B-1, a natural antioxidant that reduces the effects of H₂O₂ on CCK-8-evoked responses in mouse pancreatic acinar cells. *J Physiol Biochem.* 2012 Jun;68(2):181-91. doi: 10.1007/s13105-011-0130-2. Epub 2011 Nov 26. PubMed PMID: 22120978.

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