

Leucocyanidin

Chemical Properties

CAS No. : 480-17-1

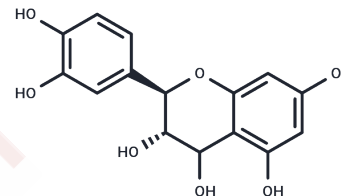
Formula: C₁₅H₁₄O₇

Molecular Weight: 306.27

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Leucocyanidin (Leucocyanidin) is an antiulcer compound extracted from Aesculus Hippocastanum Seeds. Leucocyanidin can be used to study non-alcoholic fatty liver disease.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (261.21 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2651 mL	16.3255 mL	32.6509 mL
5 mM	0.653 mL	3.2651 mL	6.5302 mL
10 mM	0.3265 mL	1.6325 mL	3.2651 mL
50 mM	0.0653 mL	0.3265 mL	0.653 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

Stafford HA, et al. Flavan-3-ol Biosynthesis : The Conversion of (+)-Dihydroquercetin and Flavan-3,4-cis-Diol (Leucocyanidin) to (+)-Catechin by Reductases Extracted from Cell Suspension Cultures of Douglas Fir. *Plant Physiol.* 1984 Sep;76(1):184-6.

Lewis DA, et al. A natural flavonoid present in unripe plantain banana pulp (*Musa sapientum* L. var. *paradisiaca*) protects the gastric mucosa from aspirin-induced erosions. *J Ethnopharmacol.* 1999 Jun;65(3):283-8.

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