

## Cynaroside

## Chemical Properties

CAS No. : 5373-11-5

Formula: C<sub>21</sub>H<sub>20</sub>O<sub>11</sub>

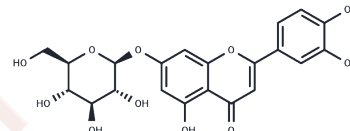
Molecular Weight: 448.38

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Cynaroside (Luteolin 7-O-Glucoside) is a flavone, a flavonoid-like chemical compound. It has an anti-oxidant effect, inhibiting lipid and protein oxidation.
Targets(IC50)	Apoptosis, Antibacterial, Parasite, Antifungal, DNA/RNA Synthesis, Influenza Virus

## Solubility Information

Solubility	DMSO: 83.33 mg/mL (185.85 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: 2 mg/mL (4.46 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	2.2303 mL	11.1513 mL	22.3025 mL
5 mM	0.4461 mL	2.2303 mL	4.4605 mL
10 mM	0.223 mL	1.1151 mL	2.2303 mL
50 mM	0.0446 mL	0.223 mL	0.4461 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

- Hu W, et al. Effects of ultrahigh pressure extraction on yield and antioxidant activity of chlorogenic acid and cynaroside extracted from flower buds of *Lonicera japonica*. *Chin J Nat Med*. 2015 Jun;13(6):445-53.
- Jiang H, Chen J, Li X, et al. Systematic Identification of Chemical Components in Fufang Shuanghua Oral Liquid and Screening of Potential Active Components Against SARS-CoV-2 Protease. *Journal of Pharmaceutical and Biomedical Analysis*. 2022; 115118.
- Jiang H, Chen J, Li X, et al. Systematic identification of chemical components in Fufang Shuanghua oral liquid and screening of potential active components against SARS-CoV-2 protease. *Journal of Pharmaceutical and Biomedical Analysis*. 2023, 223: 115118.
- Liu Y, Han Y, Liu Y, et al. *Xanthoceras sorbifolium* leaves alleviate hyperuricemic nephropathy by inhibiting the PI3K/AKT signaling pathway to regulate uric acid transport. *Journal of Ethnopharmacology*. 2024: 117946.

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