

Cichoriin

Chemical Properties

CAS No. : 531-58-8

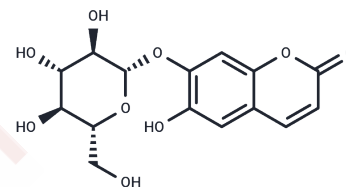
Formula: C₁₅H₁₆O₉

Molecular Weight: 340.28

Keep away from direct sunlight

Storage: 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	Cichoriin is a photosensitive compound, it could be used as herbal photosensitizing agent in treating benign breast tumor in rats.
Targets(IC50)	Others,SARS-CoV
In vitro	METHODS AND RESULTS:Four flavonoids including kaempferol (1), isoscutellarin (2), umbelliferone (3) and Cichoriin (4) have been isolated from Streptomyces sp. Tc052, an endophyte in the root tissue of Alpinia galanga Swartz. The evaluation for protective effect of compounds 1-4 against glutamate-induced cytotoxicity in hippocampal HT22 cell line was conducted, Compounds 1 and 2 showed significant effective protection ratios of 62.4±2.8 and 55.3±3.4%, respectively, at a concentration of 100 µM, whereas compounds 3-4 were inactive. Compounds 1 and 2 showed potent scavenging effects on DPPH radical exhibiting IC50 value of 60.74 and 75.65 µM, respectively. CONCLUSIONS: These results suggest that compounds 1 and 2 may possess the neuroprotective activity against oxidative cellular injuries.

Solubility Information

Solubility	DMSO: 60 mg/mL (176.33 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 (5.88 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	2.9388 mL	14.6938 mL	29.3876 mL
5 mM	0.5878 mL	2.9388 mL	5.8775 mL
10 mM	0.2939 mL	1.4694 mL	2.9388 mL
50 mM	0.0588 mL	0.2939 mL	0.5878 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

Cytoprotective Activity of Chemical Constituents Isolated from *Streptomyces* sp. International Journal of Biological Chemistry, 2009, 3(1):11-17.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481