

Cichoriin

Chemical Properties

CAS No.:	531-58-8
Formula:	C ₁₅ H ₁₆ O ₉
Molecular Weight:	340.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cichoriin is a photosensitive compound, it could be used as herbal photosensitizing agent in treating benign breast tumor in rats.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Four flavonoids including kaempferol (1), isoscutellarin (2), umbelliferone (3) and Cichoriin (4) have been isolated from <i>Streptomyces</i> sp. Tc052, an endophyte in the root tissue of <i>Alpinia galanga</i> 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 IC ₅₀ 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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.939 mL	14.693 mL	29.386 mL
5 mM	0.588 mL	2.939 mL	5.877 mL
10 mM	0.294 mL	1.469 mL	2.939 mL
50 mM	0.059 mL	0.294 mL	0.588 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

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