

Eriocitrin

Chemical Properties

CAS No. : 13463-28-0

Formula: C₂₇H₃₂O₁₅

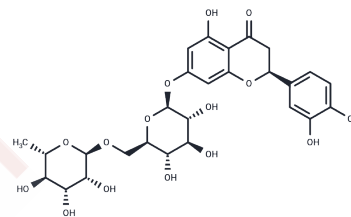
Molecular Weight: 596.53

Keep away from direct sunlight, Keep away from moisture

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	1. Eriocitrin (Eriodictyol-7-O-Rutinoside) is powerful antioxidative flavonoid; (1) Prevents oxidative damages caused by acute exercise-induced oxidative stress.(2) Lipid-lowering effects in a rat model of high-fat diet. 2. Dietary Eriocitrin ameliorates diet-induced hepatic steatosis with activation of mitochondrial biogenesis. 3. Eriocitrin and Apigenin were identified as new potent inhibitors of human carbonic anhydrase VA isozyme.
Targets(IC50)	Apoptosis, Carbonic Anhydrase

Solubility Information

Solubility	Pyridine, Methanol, etc.: Soluble, DMSO: 91 mg/mL (152.55 mM), Sonication is recommended. Ethanol: Soluble, (< 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 (5.53 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	1.6764 mL	8.3818 mL	16.7636 mL
5 mM	0.3353 mL	1.6764 mL	3.3527 mL
10 mM	0.1676 mL	0.8382 mL	1.6764 mL
50 mM	0.0335 mL	0.1676 mL	0.3353 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

Gidaro M C , Alcaro F , Carradori S , et al. Eriocitrin and apigenin as new carbonic anhydrase VA inhibitors from a virtual screening of calabrian natural products[J]. *Planta Medica*, 2015, 81(06):533-540.

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Xiao Y, Cai G P, Feng X, et al. Splicing factor YBX1 regulates bone marrow stromal cell fate during aging. *The EMBO Journal*. 2023: e111762.

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