

Eriocitrin

Chemical Properties

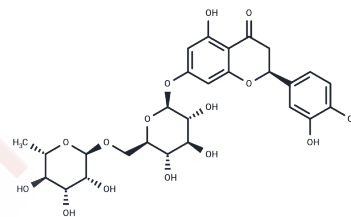
CAS No. : 13463-28-0

Formula: C₂₇H₃₂O₁₅

Molecular Weight: 596.53

Appearance: no data available

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



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)
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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.

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.
- Xiao Y Z, Yang M, Xiao Y, et al. Reducing Hypothalamic Stem Cell Senescence Protects against Aging-Associated Physiological Decline. *Cell Metabolism*. 2020-31(3) 534-548
- Xiao Y Z, Yang M, Xiao Y, et al. Reducing Hypothalamic Stem Cell Senescence Protects against Aging-Associated Physiological Decline[J]. *Cell Metabolism*. 2020
- 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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