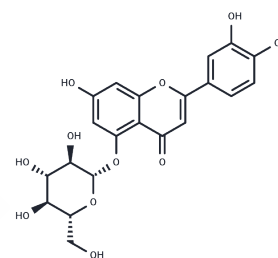


Luteolin 5-O-glucoside

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 20344-46-1 |
| Formula: | C ₂₁ H ₂₀ O ₁₁ |
| Molecular Weight: | 448.38 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | Luteolin 5-O-glucoside, a natural flavonoid, inhibit LPS-induced NO production and t-BHP-induced ROS production in wild-type 264.7 cells, and iNOS and COX-2 expression in macrophages. |
| Targets(IC50) | NOS,Reactive Oxygen Species,NO Synthase,NOD,COX,ROS |
| In vitro | In RAW 264.7 murine macrophages, luteolin 5-O-glucoside showed no significant cytotoxicity at concentrations up to 200µM. Luteolin 5-O-glucoside inhibited LPS-induced NO production with an IC ₅₀ of 64.36µM, suppressed t-BHP-induced ROS generation (IC ₅₀ = 2.17µM), and dose-dependently downregulated iNOS and COX-2 expression, indicating notable anti-inflammatory and antioxidant activity[1]. |

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

Jung HA, Jin SE, Min BS, Kim BW, Choi JS. Anti-inflammatory activity of Korean thistle *Cirsium maackii* and its major flavonoid, luteolin 5-O-glucoside. *Food Chem Toxicol.* 2012 Jun;50(6):2171-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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