

(±)-Eriodictyol**Chemical Properties**

CAS No. : 4049-38-1

Formula: C₁₅H₁₂O₆

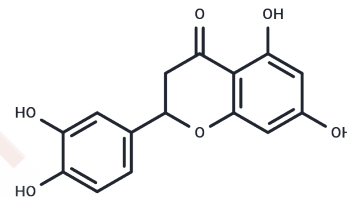
Molecular Weight: 288.25

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 | (±)-Eriodictyol (Dihydroluteolin) is the racemate, while Eriodictyol contains only the (+)-Eriodictyol configuration. (±)-Huazhongilexone is a naturally occurring flavonoid with a variety of biological activities including antioxidant, anti-inflammatory, and anticancer activities, and is a potent inhibitor of melanogenesis, and is also used as a food additive. |
| Targets(IC50) | Melanocortin Receptor |

Solubility Information

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|---------------------|--|
| Solubility | DMSO: 80 mg/mL (277.54 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: 3.3 mg/mL (11.45 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 | 3.4692 mL | 17.3461 mL | 34.6921 mL |
| 5 mM | 0.6938 mL | 3.4692 mL | 6.9384 mL |
| 10 mM | 0.3469 mL | 1.7346 mL | 3.4692 mL |
| 50 mM | 0.0694 mL | 0.3469 mL | 0.6938 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

Souichi Nakashima, et al. Inhibitors of melanogenesis in B16 melanoma 4A5 cells from flower buds of Lawsonia inermis (Henna). *Bioorg Med Chem Lett.* 2015 Jul 1;25(13):2702-6.

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