

Product Name: (±)-Eriodictyol

Catalog No.: 7199

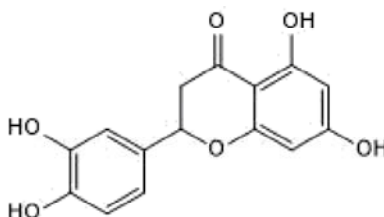
Batch No.: 1

CAS Number: 4049-38-1

IUPAC Name: 2-(3,4-Dihydroxyphenyl)-2,3-dihydro-5,7-dihydroxy-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₂O₆
Batch Molecular Weight: 288.26
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 62.5 | 4.2 | |
| Found | 62.26 | 4.25 | |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent TRPV1 antagonist. Inhibits capsaicin (Cat. No. 0462)-induced Ca²⁺ influx in synaptosomes. Exhibits antinociceptive activity in animal models without affecting body temperature. Also antioxidant; protects against H₂O₂-induced neurotoxicity in vitro by activation of Nrf2/ARE signaling. Modeling studies predict binding to ACE2 preventing its interaction with SARS-CoV-2 S protein. Naturally-derived flavonoid. Orally bioavailable.

Physical and Chemical Properties:

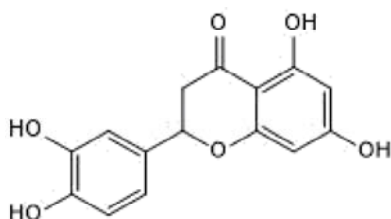
Batch Molecular Formula: C₁₅H₁₂O₆

Batch Molecular Weight: 288.26

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Smith and Smith et al (2020) Repurposing therapeutics for COVID-19: Supercomputer-based docking to the SARS-CoV-2 viral spike protein and viral spike protein-human ACE2 interface. ChemRxiv - Paper not yet peer reviewed.

Lou et al (2012) Eriodictyol protects against H₂O₂-induced neuron-like PC12 cell death through activation of Nrf2/ARE signaling pathway. Neurochem.Int. **61** 251. PMID: 22609376.

Rossato et al (2011) Eriodictyol: A flavonoid antagonist of the TRPV1 receptor with antioxidant activity. Biochem.Pharmacol. **81** 544. PMID: 21087598.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956