

Product Name: Methoxyluteolin

Catalog No.: 7320

Batch No.: 1

CAS Number: 855-97-0

IUPAC Name: 2-(3,4-Dimethoxyphenyl)-5,7-dimethoxy-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈O₆ · ½H₂O

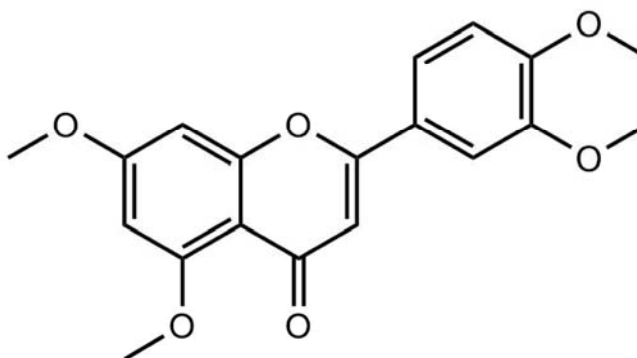
Batch Molecular Weight: 351.36

Physical Appearance: Off White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.95	5.45	
Found	64.53	5.18	

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

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Description:

Methoxyluteolin inhibits release of pro-inflammatory mediators from mast cells and decreases gene expression and release of TNF, VEGF and IL-8/CXCL8. The product also significantly inhibits IL-33 stimulated expression and release of CCL5 and CCL2. Methoxyluteolin pretreatment of LAD2 mast cells decreases gene expression of TNF, CXCL8 and VEGF in response to neurotensin or substance P via mTOR activation.

Physical and Chemical Properties:

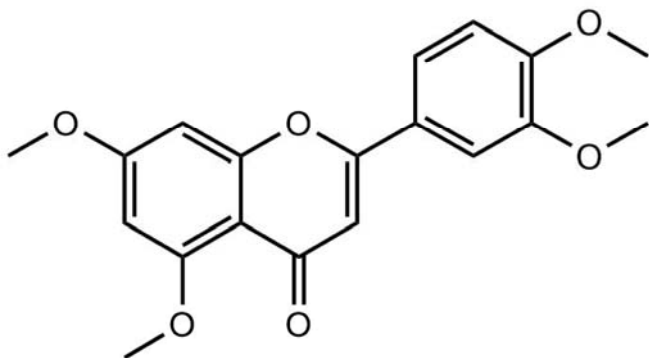
Batch Molecular Formula: C₁₉H₁₈O₆ · ½H₂O

Batch Molecular Weight: 351.36

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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 20 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.

References:

Abubakr Bawazeer and Theoharides (2019) IL-33 stimulates human mast cell release of CCL5 and CCL2 via MAPK and NF-κB, inhibited by methoxyluteolin. *Eur.J.Pharmacol.* **865**. PMID: 31669588.

Taracanova et al (2018) Substance P and IL-33 administered together stimulate a marked secretion of IL-1β from human mast cells, inhibited by methoxyluteolin. *Proc.Nat.Acad.Sci. USA* **115** 9381. PMID: 30232261.

Patel and Theoharides (2017) Methoxyluteolin inhibits neuropeptide-stimulated proinflammatory mediator release via mTOR activation from human mast cells. *J.Pharmacol.Exp.Ther.* **361** 462. PMID: 28404689.

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