

## Certificate of Analysis

**Product Name:** 6,2',4'-Trimethoxyflavone

**Catalog No.:** 3859

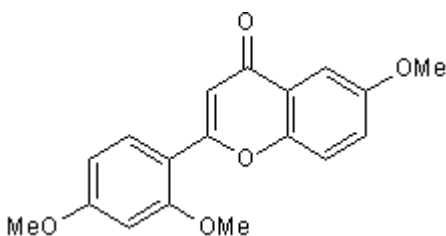
**Batch No.:** 2

CAS Number: 720675-74-1

IUPAC Name: 2',4',6-Trimethoxyflavone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>16</sub>O<sub>5</sub>  
**Batch Molecular Weight:** 312.32  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 5 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 97.7% purity  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	69.22	5.16	
Found	69.43	5.21	

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

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IUPAC Name: 2',4',6-Trimethoxyflavone

**Description:**

Aryl hydrocarbon receptor antagonist (EC<sub>50</sub> = 0.9 μM). Exhibits no short term agonist activity and no species or promoter dependence.

**Physical and Chemical Properties:**

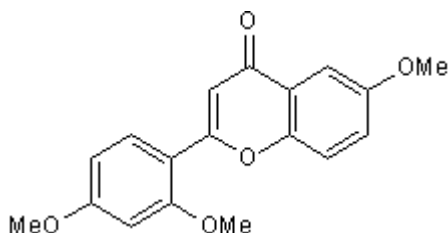
Batch Molecular Formula: C<sub>18</sub>H<sub>16</sub>O<sub>5</sub>

Batch Molecular Weight: 312.32

Physical Appearance: Yellow solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 5 mM with gentle warming

**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:**

**Murray et al** (2010) Antagonism of aryl hydrocarbon receptor signaling by 6,2',4'-trimethoxyflavone. *J.Pharmacol.Exp.Ther.* **332** 135. PMID: 19828881.

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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