# Certificate of Analysis

### Print Date: Dec 20th 2022

#### www.tocris.com

#### Product Name: Caffeic acid phenethyl ester

Catalog No.: 2743 Batch No.: 3

CAS Number:104594-70-9IUPAC Name:3-(3,4-Dihydroxyphenyl)-2-propenoic acid 2-phenylethyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

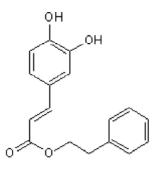
Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

TOCR

a biotechne

C<sub>17</sub>H<sub>16</sub>O<sub>4</sub> 284.31 Pale yellow solid DMSO to 100 mM ethanol to 100 mM Store at -20°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 99.8% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen			
Theoretical	71.82	5.67	0
Found	71.12	5.66	0.1

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

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## **Product Information**

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3

#### Product Name: Caffeic acid phenethyl ester

CAS Number: 104594-70-9

IUPAC Name: 3-(3,4-Dihydroxyphenyl)-2-propenoic acid 2-phenylethyl ester

#### **Description:**

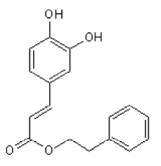
Caffeic acid phenethyl ester is an antioxidant, antimitogenic, anticarcinogenic, anti-inflammatory and antiviral. Specifically inhibits NF- $\kappa$ B activation and inhibits the growth of transformed cells. Also suppresses lipid peroxidation and inhibits ornithine decarboxylase, protein tyrosine kinase and lipoxygenase activities.

#### Physical and Chemical Properties:

Batch Molecular Formula: C<sub>17</sub>H<sub>16</sub>O<sub>4</sub> Batch Molecular Weight: 284.31 Physical Appearance: Pale yellow 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.

Catalog No.: 2743

#### Solubility & Usage Info:

DMSO to 100 mM ethanol to 100 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:

**Fitzpatrick** *et al* (2001) Caffeic acid phenethyl ester, an inhibitor of nuclear factor-kB, attenuates bacterial peptidoglycan polysaccharideinduced colitis in rats. J.Pharmacol.Exp.Ther. **299** 915. PMID: 11714876.

**Natarajan** *et al* (1996) Caffeic acid phenethyl ester is a potent and specific inhibitor of activation of nuclear transcription factor NF-κB. Proc.Natl.Acad.Sci.USA **93** 9090.

Sud'ina et al (1993) Caffeic acid phenethyl ester as a lipoxygenase inhibitor with antioxidant properties. FEBS Lett. 329 21. PMID: 7689063.

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