

Product Name: Caffeic acid phenethyl ester

Catalog No.: 2743

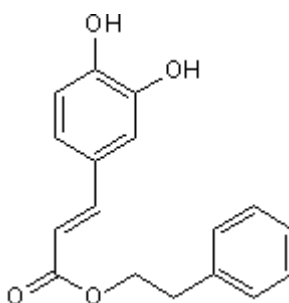
Batch No.: 2

CAS Number: 104594-70-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆O₄
Batch Molecular Weight: 284.31
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 127 - 128°C
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.82	5.67	
Found	71.96	5.71	

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

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Description:

Antioxidant, antimitogenic, anticarcinogenic, anti-inflammatory and antiviral. Specifically inhibits NF-κB 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:

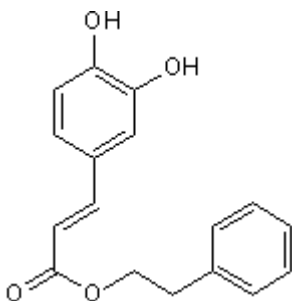
Batch Molecular Formula: C₁₇H₁₆O₄

Batch Molecular Weight: 284.31

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

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

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.

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

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 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.

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