Product Name: Caffeic acid phenethyl ester
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: $C_{17}H_{16}O_4$
Batch Molecular Weight: 284.31
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

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

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>71.82</td>
<td>71.96</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.67</td>
<td>5.71</td>
</tr>
</tbody>
</table>

Certificate of Analysis
Print Date: Apr 28th 2015
www.tocris.com
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CAS Number: 104594-70-9
IUPAC Name: 3-(3,4-Dihydroxyphenyl)-2-propenoic acid 2-phenylethyl ester

**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%

**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.

**References:**