Caffeic Acid phenylethyl ester
Item No. 70750

CAS Registry No.: 104594-70-9
Formal Name: (E)-3-(3,4-dihydroxyphenyl)-2-propenoic acid, 2-phenylethyl ester
Synonyms: CAPE, 2-Phenylethyl Caffeate, β-Phenylethyl Caffeate

MF: C17H16O4
FW: 284.3
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid
UV/Vis.: λmax: 246, 300, 331 nm

Laboratory Procedures
For long term storage, we suggest that caffeic acid phenylethyl ester be stored as supplied at -20°C. It should be stable for at least one year.
Caffeic acid phenylethyl ester is not soluble in water but freely soluble in organic solvents such as ethanol, methanol, acetone, acetonitrile, or DMSO. The solubility of caffeic acid phenylethyl ester in these solvents is approximately 10 mg/ml.
Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing any biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.
Caffeic acid phenylethyl ester, an active component of propolis from honeybee hives, is known to have antimitogenic, anticarcinogenic, antiinflammatory, and immunomodulatory properties. It is a potent and specific inhibitor of the activation of nuclear transcription factor NF-κB. It also exhibits inhibitory activity against HIV-1 integrase with IC50 of 7 μM.

References

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