

Product Data Sheet

Product Name: Caffeic Acid methyl ester

Cat. No.: GC40490

Chemical Properties

Cas. No. 3843-74-1

SMILES OC1=C(O)C=CC(=C/C=C/C(OC)=O)=C1

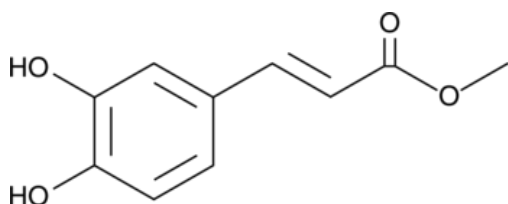
Formula C₁₀H₁₀O₄ M.Wt 194.2

Solubility DMF: 5 mg/ml, DMSO: 5 mg/ml, Ethanol: 20 mg/ml, PBS (pH 7.2): .5 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Caffeic acid methyl ester is an ester of a naturally occurring phenolic compound found in *P. amplexicaule* var. *sinense* and *S. torvum* fruits. At 40 mg/kg, it demonstrates antihyperglycemic and antidiabetic activity in diabetic rats, upregulating GLUT4 and regenerating pancreatic β -cells. At 10 mg/kg, it can induce anti-inflammatory and antinociceptive effects in rat models of edema and pain, inhibiting nitric oxide and prostaglandin E₂ production, as well as tumor necrosis factor- α release.

Caution: Product has not been fully validated for medical applications. For research use only.

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