



LKT Laboratories, Inc.

Methyl Caffeate

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Product Information

Product ID M1560
CAS No. 3843-74-1
Chemical Name Methyl 3-(3,4-dihydroxyphenyl)-2-propenoate

Synonym 3,4-Dihydroxycinnamic acid methylester

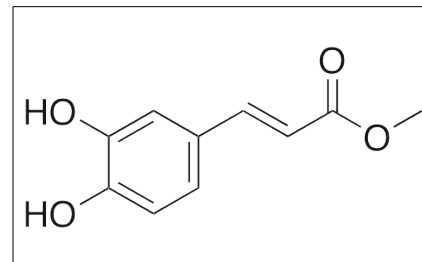
Formula C₁₀H₁₀O₄
Formula Wt. 194.19
Melting Point 163-165 °C
Purity ≥98%

Solubility Soluble in acetone,
methanol, or DMSO.

Store Temp -20 °C

Ship Temp Ambient

Description Methyl caffeate is a polyphenol found in species of *Solanum* and *Magnolia*; it exhibits antibiotic, anti-diabetic, antiviral, and anticoagulant activities. Methyl caffeate displays antibacterial efficacy against *Pseudomonas*, *Klebsiella*, and *Mycobacterium*. This compound also inhibits HIV replication and displays antiplatelet activity in various in vitro models. In diabetic rats, methyl caffeate decrease blood glucose levels and upregulates expression of GLUT4; it also inhibits α-glucosidase. Methyl caffeate exhibits weaker anticancer and chemopreventive activities than other caffeic acid esters.



Bulk quantities available upon request

Product ID	Size
M1560	50 mg
M1560	100 mg
M1560	500 mg

References Balachandran C, Duraipandiyan V, Al-Dhabi NA, et al. Antimicrobial and Antimycobacterial Activities of Methyl Caffeate Isolated from *Solanum torvum* Swartz. Fruit. *Indian J Microbiol.* 2012 Dec;52(4):676-81. PMID: 24293730.

Gandhi GR, Ignacimuthu S, Paulraj MG, et al. Antihyperglycemic activity and antidiabetic effect of methyl caffeate isolated from *Solanum torvum* Swartz. fruit in streptozotocin induced diabetic rats. *Eur J Pharmacol.* 2011 Nov 30;670(2-3):623-31. PMID: 21963451.

Takahashi K, Yoshioka Y, Kato E, et al. Methyl caffeate as an alpha-glucosidase inhibitor from *Solanum torvum* fruits and the activity of related compounds. *Biosci Biotechnol Biochem.* 2010;74(4):741-5. PMID: 20378981.

Ho CC, Lin SS, Chou MY, et al. Effects of CAPE-like compounds on HIV replication in vitro and modulation of cytokines in vivo. *J Antimicrob Chemother.* 2005 Aug;56(2):372-9. PMID: 16002419.

Pyo MK, Lee Y, Yun-Choi HS. Anti-platelet effect of the constituents isolated from the barks and fruits of *Magnolia obovata*. *Arch Pharm Res.* 2002 Jun;25(3):325-8. PMID: 12135105.

Rao CV, Desai D, Kaul B, et al. Effect of caffeic acid esters on carcinogen-induced mutagenicity and human colon adenocarcinoma cell growth. *Chem Biol Interact.* 1992 Nov 16;84(3):277-90. PMID: 1423745.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.