

## Product Information

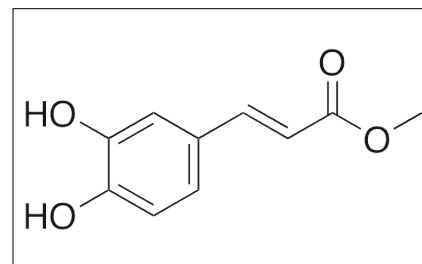
**Product ID** M1560  
**CAS No.** 3843-74-1  
**Chemical Name** Methyl 3-(3,4-dihydroxyphenyl)-2-propenoate

**Synonym** 3,4-Dihydroxycinnamic acid methylester

**Formula** C<sub>10</sub>H<sub>10</sub>O<sub>4</sub>  
**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.



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
M1560	50 mg	\$67.40
M1560	100 mg	\$119.90
M1560	500 mg	\$479.40

**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.