
Product Data Sheet

Product Name: Methyl p-coumarate

Cat. No.: GC61670

Chemical Properties

Cas. No. 3943-97-3

SMILES O=C(OC)/C=C/C1=CC=C(O)C=C1Formula $C_{10}H_{10}O_3$

M.Wt 178.18

Solubility DMSO : 100 mg/mL (561.23 mM; ultrasonic and warming and heat to 60°C)

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**

Methyl p-coumarate (Methyl 4-hydroxycinnamate), an esterified derivative of p-Coumaric acid (pCA), is isolated from the flower of *Trixis michuacana* var *longifolia*. Methyl p-coumarate could inhibit the melanin formation in B16 mouse melanoma cells. Methyl p-coumarate also has strong in vitro inhibitory effect on *A. alternata* and other pathogens[1][2].

[1]. Kubo I, et, al. Methyl p-coumarate, a melanin formation inhibitor in B16 mouse melanoma cells. *Bioorg Med Chem*. 2004 Oct 15;12(20):5349-54. [2]. Yuan S, et, al. Defense Responses, Induced by p-Coumaric Acid and Methyl p-Coumarate, of Jujube (*Ziziphus jujuba* Mill.) Fruit against Black Spot Rot Caused by *Alternaria alternate*. *J Agric Food Chem*. 2019 Mar 13;67(10):2801-2810.

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

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