
Product Data Sheet

Product Name: (E)-3,4-Dimethoxycinnamic acid

Cat. No.: GC61668

Chemical Properties

Cas. No. 14737-89-4

SMILES O=C(/C=C/C1=CC=C(C(OC)=C1)OC)O.[(E)]

Formula $C_{11}H_{12}O_4$

M.Wt 208.21

Solubility DMSO : 50 mg/mL (240.14 mM; Need ultrasonic) 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

(E)-3,4-Dimethoxycinnamic acid is the less active isomer of 3,4-Dimethoxycinnamic acid. 3,4-Dimethoxycinnamic acid is a monomer extracted and purified from *Securidaca inappendiculata* Hassk. 3,4-Dimethoxycinnamic acid exerts anti-apoptotic effects on L-02 cells via the ROS-mediated signaling pathway[1]. Anti-apoptotic effects[1].

3,4-Dimethoxycinnamic acid (Methyl ferulic acid; 25, 50 and 100 μ M) attenuates the ethanol-induced apoptosis of ethanol-exposed L-02 cells[1]. 3,4-Dimethoxycinnamic acid (25, 50 and 100 μ M) inhibits the expression levels of Nox4 and p22phox in L-02 cells[1]. 3,4-Dimethoxycinnamic acid (25, 50 and 100 μ M) treatment attenuates ethanol-induced MAPK phosphorylation in L-02 cells[1]. 3,4-Dimethoxycinnamic acid decreases the expression levels of superoxide dismutase, catalase and phospholipid hydroperoxide glutathione peroxidase, and downregulates the levels of Bax/Bcl-2 and the cleaved forms of caspase-3 in a dose- and time-dependent manner[1].

[1]. Li L, et al. Methyl ferulic acid exerts anti-apoptotic effects on L-02 cells via the ROS-mediated signaling pathway. *Int J Oncol.* 2018 Jul;53(1):225-236.

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

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