3,4-Dimethoxycinnamic acid

Cat. No.: HY-N1778
CAS No.: 2316-26-9
Molecular Formula: C₁₁H₁₂O₄
Molecular Weight: 208.21
Target: Reactive Oxygen Species; Virus Protease
Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Anti-infection
Storage:
  - Powder: -20°C 3 years
  - Powder: 4°C 2 years
  - In solvent: -80°C 6 months
  - In solvent: -20°C 1 month

### BIOLOGICAL ACTIVITY

**Description**
3,4-Dimethoxycinnamic acid (O-Methylferulic 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].

**In Vitro**
3,4-Dimethoxycinnamic acid (Methyl ferulic acid; 25, 50 and 100 µM) attenuates the ethanol-induced apoptosis of ethanol-exposed L-02 cells[1].
3,4-Dimethoxycinnamic acid (25, 50 and 100 µM) inhibits the expression levels of Nox4 and p22phox in L-02 cells[1].
3,4-Dimethoxycinnamic acid (25, 50 and 100 µM) 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].

### REFERENCES


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