[ Product Information ]

Name: Isoferulic acid

Catalog No.: CFN98282

Cas No.: 25522-33-2

Purity: >=98%

M.F: C_{10}H_{10}O_{4}

M.W: 194.18

Physical Description: Powder

Synonyms: (E)-3'-hydroxy-4'-methoxycinnamic acid; trans-Isoferulic acid;
(E)-3-(3-Hydroxy-4-methoxyphenyl)propenoic acid;
trans-3-(3-Hydroxy-4-methoxyphenyl)acrylic acid.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[ Source ]

The roots of *Cimicifuga foetida* L.
**[ Biological Activity or Inhibitors]**

Isoferulic acid (IFA) and ferulic acid (FA) are active components of the rhizoma of Cimicifuga species used frequently as anti-inflammatory drugs in Japanese Oriental medicines, have inhibitory effect on murine interleukin-8 production in response to influenza virus infections in vitro and in vivo; suggests that FA and IFA are novel and potent inhibitors of murine IL-8 production and might act as one of the main components of anti-inflammatory rhizoma of Cimicifuga species,.[1]  
Isoferulic acid can inhibit hepatic gluconeogenesis and/or increase the glucose utilization in peripheral tissue to lower plasma glucose in diabetic rats lacking insulin.[2]  
Isoferulic acid is an effective natural antioxidant in both lipid and aqueous media, [3]  
Isoferulic acid may be a new promising anti-glycation agent for the prevention of diabetic complications via inhibition of advanced glycation end products (AGEs) formation and oxidation-dependent protein damage.[4]  
Isoferulic acid has inhibitory effect on mushroom tyrosinase.[5]  

**[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.  

**[ HPLC Method ]**[6]

Mobile phase: Methanol-H2O-Phosphoric acid =50:150:0.1 ;
Flow rate: 1.0 ml/min;
Column temperature: 24 ℃;
The wave length of determination: 320 nm.

**[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.
[ References ]


[ Contact ]

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