

## Ethyl ferulate Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Ethyl ferulate

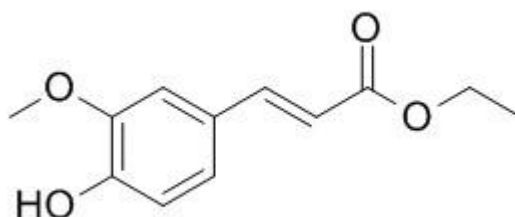
**Catalog No.:** CFN99767

**Cas No.:** 4046-02-08

**Purity:** >=98%

**M.F:** C<sub>12</sub>H<sub>14</sub>O<sub>4</sub>

**M.W:** 222.24



**Physical Description:** Powder

**Synonyms:** Ethyl-4'-hydroxy-3'-methoxycinnamate; 4-Hydroxy-3-methoxycinnamic acid ethyl ester.

### [ Intended Use ]

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

### [ Source ]

The rhizomes of *Ferula sinkiangensis* K.M.Shen.

### [ Biological Activity or Inhibitors ]

Ethyl ferulate, a potent inducer of HO-1 for the protection of brain cells against oxidative and neurodegenerative conditions.<sup>[1]</sup>

Ferulate ethyl and tocopherol can reduce HIV replication.<sup>[2]</sup>

Ethyl ferulate, a component with anti-inflammatory properties for emulsion-based creams.<sup>[3]</sup>

Ethyl ferulate has inhibitive effect on platelet congregation induced by ADP, the inhibitive effect is much more than that of ferulic acid.<sup>[4]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Acetone-Acetonitrile- 1.2% Acetic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 350 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Scapagnini G, Butterfield D A, Colombrita C, *et al. Antioxid Redox Signal*, 2004 ,6(5): 811-8.

[2] Edeas M A, Claise C, Vergnes L, *et al. Febs Lett.*, 1997, 418(1-2):15-8.

[3] Aljawish A, Chevalot I, Jasniewski J, *et al. Food Chem.*, 2014, 161(11):279-87.

[4] Wang R, Xiong X, Liu L, *et al. Journal of the Fourth Military Medical University*, 2002,23(6):537-9.

[5] Kong C. *Universiti Putra Malaysia*. 2008.

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