

## Trans-Ferulic acid Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Trans-Ferulic acid

**Catalog No.:** CFN92394

**Cas No.:** 537-98-4

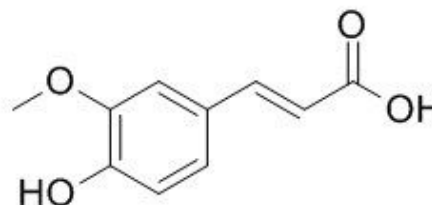
**Purity:** >=99%

**M.F:** C<sub>10</sub>H<sub>10</sub>O<sub>4</sub>

**M.W:** 194.18

**Physical Description:** Powder

**Synonyms:** Trans-4-hydroxy-3-methoxycinnamic-acid ;(2E)-3-(4-Hydroxy-3-methoxyphenyl)-2-propenoic acid;(E)-3-(4-Hydroxy-3-methoxyphenyl)-2-propenoic acid.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Euphorbia hylonoma*.

### [ Biological Activity or Inhibitors ]

Trans-ferulic (FA) acid exhibits antioxidant effects in vitro, it also has inhibitory effect on proliferation and migration of human lung cancer cells accompanied with increased endogenous reactive oxygen species and  $\beta$ -catenin instability.<sup>[1]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Acetonitrile- 0.3 % Acetic acid H<sub>2</sub>O=20:80;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 320 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Yao F, Tang C C, Hu H T, *et al. Chinese Medicine*, 2016,11:45.

[2] Liu X F, Liu Y Q, Zhao P, *et al. Research & Practice on Chinese Medicines*, 2009(2).

## **[ Contact ]**

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