



2-Hydroxycinnamic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 2-Hydroxycinnamic acid

Catalog No.: CFN98193

Cas No.: 614-60-8

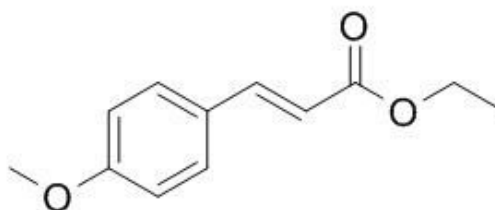
Purity: >= 99%

M.F: C₉H₈O₃

M.W: 164.16

Physical Description: White powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herbs of *Angraecum fragrans*.

[Biological Activity or Inhibitors]

Trans-2-hydroxycinnamic acid (T2HCA) is a hydroxyl derivative of cinnamic acid, trans-2-hydroxycinnamic acid has efficacy against trichlorfon-induced oxidative stress in wistar rats.^[1]

2-Hydroxycinnamic acid germanium has strong inhibitory effect on the tumor U14.^[2]

Hydroxycinnamic acid compounds are an important source of antioxidants.^[3]

Hydroxycinnamic acids have the ability to protect against oxidative stress and genotoxicity in cultured mammalian cells, they also show the ability to reduce the activity of the xenobiotic metabolising enzyme, cytochrome P450 1A, and downregulate the expression of the cyclooxygenase-2 enzyme. ^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.1% Aqueous formic acid, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 324 nm.

[Storage]

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

[References]

[1] Sharma P, Singh R. *Toxicol. Int.*, 2012, 19(3):295-300.

[2] Ye L B, Ou X M, Tu J Q, *et al. Northwest Pharmaceutical Journal*, 2010, 25(6):438-9.

[3] Chenjiang H, Ho C T. *J. Agric. food Chem.*, 1997, 45(7):2374-8.

[4] Ferguson L R, Zhu S T, Harris P J. *Mol. Nutr. Food Res.*, 2005, 49(6):585-93.

[5] He D, Shan Y, Wu Y, *et al. Food Chem.*, 2011, 127(2):880-5.

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