

## Chlorogenic acid Datasheet

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

### [ Product Information ]

**Name:** Chlorogenic acid

**Catalog No.:** CFN99116

**Cas No.:** 327-97-9

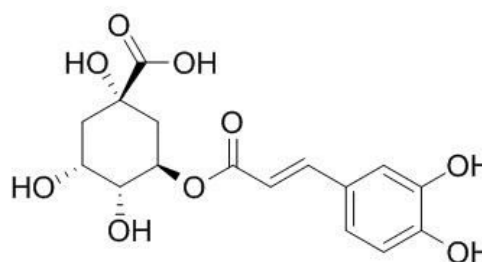
**Purity:** 98%

**M.F:** C<sub>16</sub>H<sub>18</sub>O<sub>9</sub>

**M.W:** 354.31

**Physical Description:** Cryst.

**Synonyms:** 1,3,4,5-Tetrahydroxycyclohexanecarboxylic acid 3-(3,4-dihydroxycinnamate), 3-(3,4-Dihydroxycinnamoyl)quinic acid.



### [ Intended Use ]

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

### [ Source ]

The bark of *Eucommia ulmoides* Oliv.

### [ Biological Activity or Inhibitors ]

Chlorogenic acid, a phenolic compound found ubiquitously in plants, is an in vitro antioxidant and metal chelator, some derivatives of chlorogenic acid are hypoglycemic agents and may affect lipid metabolism; in vivo, chlorogenic acid can improve glucose tolerance, decrease some plasma and liver lipids, and improve mineral pool distribution.<sup>[1]</sup>

Chlorogenic acid and caffeic acid have antioxidant property, have effects on intestinal ischemia–reperfusion injury.<sup>[2]</sup>

Chlorogenic acid has antiviral activity, reduces serum DHBV level in DHBV-infected duckling model, shows inhibitory effect on HBV replication.<sup>[3]</sup>

### **[ Solvent ]**

Acetone, Methanol, Ethanol.

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol-0.2M Acetic acid= 25:75(pH 3.0);

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 300 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Sotillo D V R D, Hadley M. *J. Nutr. Biochem.*, 2002, 13(12):717-26.

[2] Sato Y, Itagaki S, Kurokawa T, *et al. Int. J. Pharm.*, 2011, 403(1-2):136-8.

[3] Wang G F, Shi L P, Ren Y D, *et al. Antivir Res.*, 2009, 83(2):186-90.

[4] Li X P, Yu J, Luo J Y, *et al. Biomed. Chromatogr.*, 2006, 20(2):206-10.

### **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)**Tel:** +86-27-84237783**Fax:** +86-27-84254680**Web:** [www.chemfaces.com](http://www.chemfaces.com)**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)