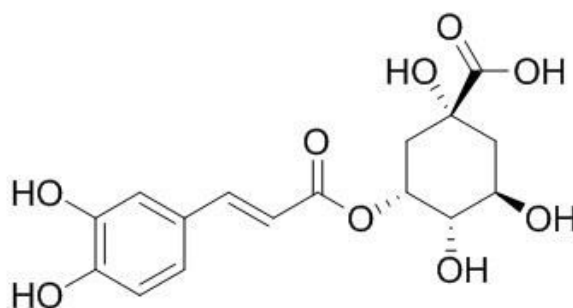


## Neochlorogenic acid Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)**[ Product Information ]****Name:** Neochlorogenic acid**Catalog No.:** CFN97472**Cas No.:** 906-33-2**Purity:** > 98%**M.F:** C<sub>16</sub>H<sub>18</sub>O<sub>9</sub>**M.W:** 354.3**Physical Description:** Powder**Synonyms:** (1R,3R,4S,5R)-3-[(E)-3-(3,4-dihydroxyphenyl)-1-oxoprop-2-enoyl]-1,4,5-trihydroxy-1-cyclohexanecarboxylic acid.**[ Intended Use ]**

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

**[ Source ]**The flowerbud of *Lonicera japonica* Thunb.

## **[ Biological Activity or Inhibitors ]**

Neochlorogenic acid (NCA) is a natural polyphenolic compound found in dried fruits and other plants, has shown that phenolic acids including NCA have outstanding antioxidant, antibacterial, antiviral, and antipyretic activities, it also exerts neuroprotective effects through the inhibition of pro-inflammatory pathways in activated microglia.<sup>[1]</sup>

Neochlorogenic acid, chlorogenic acid (CGA) and its isomer, were found to be the major phenolic compounds in the flesh and peel of three peach cultivars, the high concentrations of CGA and NCA in immature fruits might contribute to their reduced susceptibility or increased resistance to brown rot infection by interfering with fungal melanin production.<sup>[2]</sup>

Neochlorogenic acid and chlorogenic acid could be colon cancer suppressive components of the prune.<sup>[3]</sup>

## **[ Solvent ]**

Pyridine, DMSO, Ethanol, Methanol.

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

Mobile phase: Acetonitrile -0.1% Phosphoric acid H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 326 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Kim M, Choi S Y, Lee P, *et al. Neurochem. Res.*, 2015, 40(9):1792-8.

[2] Villarino M, Sandín-España P, Melgarejo P, *et al. J. Agr. Food Chem.*, 2011, 59(7): 3205-13.

[3] Lee S O, Thurow T, Rom C R, *et al. UARKive*, 2012,5.

[4] Bing H E, Yang S Y, Yan Z. *J. Chinese Pharm. Sci.*, 2012, 47(16):1280-4.

## **[ 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)