



Product Name :Green Coffee Bean Extract  
Chlorogenic Acid  
Latin Name:Coffea Arabica L  
Part used: Green coffee bean  
Active Ingredient:Chlorogenic acid  
Extraction Solvent 50% Ethanol  
Specification:15%、20%、45%、50%、98%  
Test Method:HPLC

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Test Method HPLC

Appearance Grey brownish powder

Efficacy Lowering blood pressure

#### Anti-tumor

Tonifying kidney and strengthening immune system

Anti oxidation, anti aging and resisting bone aging

Antibacterial, antiviral, diuretic, cholagogue, falling hematic fat and preventing miscarriages

Application Clinical medicine; Health food; Food antioxidant; Cosmetics, etc.

Package Packed with double food grade aluminum plastic bags in fiber can.

Storage Sealed and placed in a cool and dry environment away from moisture, sunlight and high temperature.

Validity Date Two years, pay attention to seal and avoid direct sunlight

#### Chlorogenic Acid

Chlorogenic acid is a depside generated from caffeic acid and quinic acid, and it is a phenylpropanoids compound produced through the shikimic acid way during plant's aerobic respiration process. Chlorogenic acid has a wide antibacterial effect, but it can be inactivated by proteins in the body. Similar to caffeic acid, during the oral or intraperitoneal injection, it can

improve the rat's central excitability, as well as increase the intestinal peristalsis of mice and rats and rats uterus' tension. It has cholesterol effect, which can promote bile secretion in rats. And it is sensitive to people. After inhaling plant dust containing this product, people can happen asthma and dermatitis, etc.

Chlorogeni Acid medicinal efficacy and mechanism

Chlorogenic acid is an important biological active substance with antibacterial, antiviral, increasing leucocyte, protecting liver, cholagogue, antitumor, falling blood pressure and blood lipid, scavenging free radicals and exciting the central nervous system effects. Specific

**effects include:**

1. Chlorogenic acid, as a free radical scavenger and antioxidant, has been proved by a large number of experiments that it can produce a protective effect on cardiovascular system.
2. Animal experiments show that the chlorogenic acid can prevent and inhibit the stomach cancer and colon cancer.
3. Hu Kejie and others have studied chlorogenic acid's antiviral effect in vitro, and they have found that it can obviously inhibit the syncytial virus, coxsackie B group 3, adenovirus type 7, etc., and it also has certain inhibitory effect on adenovirus type 3 and coxsackie B5.
4. Venously giving chlorogenic acid can significantly reduce the content of cholesterol and triglyceride in rat's plasma, as well as lowering the level of triglycerides in the liver significantly.
5. In vitro studies by Chiang and others have found that CGA has slight anti-leukemia activity.
6. In vitro studies have shown that chlorogenic acid can not only significantly enhance the T cell proliferation caused by influenza virus antigen, but also induce human's lymphocyte and peripheral blood leucocyte to generate  $\gamma$ 2IFN and  $\alpha$ 2IFN.

**Usage**

Chlorogenic acid has a wide range of biological activity. Modern science studies on chlorogenic acid's biological activity has gone deep into the food, health care, medicine, daily chemical and other fields. The specific usage as following:

1. The ministry of health's Drug Standard includes 170 kinds of Chinese patent drugs of clearing away heat and toxic materials as well as antiseptis and anti-inflammation, all of which contain chlorogenic acid as the main ingredient. Chlorogenic acid and other polyphenols have been called "the seventh nutrient", widely used in health industry.
2. Chlorogenic acid is a natural phenolic antioxidant and food additive of new and efficient type, used to retain food and fruit's freshness, and added in food or drink of health care function.
3. Chlorogenic acid has antioxidative property, used in urease resisting cosmetics, sunscreen, hair dye and skin care products.

A green coffee extract is an extract of unroasted, green coffee beans. Green coffee extract has been used as a weight-loss supplement and as an ingredient in other weight-loss products. Its efficacy and mechanism of action have been the subject of controversy.

There is tentative evidence of benefit; however, the quality of the evidence is poor.[1] In 2014 one of the primary trials showing benefit was retracted and the company that sponsored the study, Applied Food Sciences, was fined by the Federal Trade Commission for making baseless weight-loss claims using the flawed study.[2]

Green coffee extract is sold under various proprietary brand names including Svetol, and is

included in weight-loss products such as CoffeeSlender.

