

PRIMARY SOURCE[®]

The ORIGINAL OPC

CardioQ10™:

Coenzyme Q10 (ubiquinone) is a fat-soluble nutrient, which was first isolated in 1957. It is synthesized in the liver and is provided in various foods such as meat and fish. It is found within the mitochondria (the energy-producing part of cells.) Coenzyme Q10 is an electron carrier and is utilized in the manufacturing of ATP energy. It is highly concentrated in cardiac muscle tissue. Coenzyme Q10 levels in humans have been shown to diminish with age and during diseases such as cardiovascular and Parkinson's. In addition, there are certain drugs such as Lovastatin that reduce the body's own production of Coenzyme Q10.

The main benefit of coenzyme Q10 is that it has antioxidant properties to quench free radicals, which damage cells. There have been many human clinical studies administering Coenzyme Q10 to show significant improvements in cardiovascular patients. The contraction of the heart depends on the functioning of the myocardial tissue. Myocardial ischemia and contractility dysfunction are observed with myocardial infarcts. Limited oxygen is delivered to the heart because of occluded arteries and a reduction in contractility force. Coenzyme Q10 has been shown to improve contractility, heart rhythm and protects the myocardial tissue. In a few studies, there was a need to reduce cardiovascular medicine. Coenzyme Q10 is safe, but should first consult with their nutritionally aware health care practitioner.



CardioQ10[®]

Super-Potent CoEnzyme Q10

CardioQ10™
Super potent CoQ10 - 100mg, 30 capsules

An easy way to provide extra protection for both the circulatory system and heart:

Research shows that proper dietary supplementation can greatly improve health. Why aren't more people taking advantage of available preventative measures to protect their cardiovascular system?

The heart, one of the body's most energetic organs, beats approximately 100,000 times a day and 36 million times a year, and depends on CoQ10 for "bioenergetics."

In addition to individual, powerful antioxidant action, Primary Source OPC and CoQ10 work in harmony, each uniquely facilitating the effect of the other. CoQ10 performs its scientifically acclaimed heart benefits, while Primary Source OPC provides clinically proven activity by supporting circulatory health. The distinctive dual-action is a total approach to cardiovascular health.

More about CoQ10

Coenzyme Q10 (also known as CoQ10, Q10, vitamin Q10, ubiquinone, and ubiquinone) is a benzoquinone compound synthesized naturally by the human body. The "Q" and the "10" in the name refer to the quinone chemical group and the 10 isoprenyl chemical subunits, respectively, that are part of this compound's structure. The term "coenzyme" denotes it as an organic (contains carbon atoms), nonprotein molecule necessary for the proper functioning of its protein partner (an enzyme or an enzyme complex). Coenzyme Q10 is used by cells of the body in a process known variously as aerobic respiration, aerobic metabolism, oxidative metabolism, or cell respiration. Through this process, energy for cell growth and maintenance is created inside cells in compartments called mitochondria. Coenzyme Q10 is also used by the body as an endogenous antioxidant. An antioxidant is a substance that protects cells from free radicals, which are highly reactive chemicals, often containing oxygen atoms, capable of damaging important cellular components such as DNA and lipids. In addition, the plasma level of coenzyme Q10 has been used, in studies, as a measure of oxidative stress (a situation in which normal antioxidant levels are reduced).

Coenzyme Q10 is present in most tissues, but the highest concentrations are found in the heart, the liver, the kidneys, and the pancreas. The lowest concentration is found in the lungs. Tissue levels of this compound decrease as people age, due to increased requirements, decreased production, or insufficient intake of the chemical precursors needed for synthesis. In humans, normal blood levels of coenzyme Q10 have been defined variably, with reported normal values ranging from 0.30 to 3.84 µg/mL.

Supplement Facts

Serving Size 1 Softgel

Servings Per Container: 30

	Amount Per Serving	% Daily Value
Coenzyme Q10	100 mg	*

*Daily Value not established.

A Healthy Circulation System: The Key to More Vibrant Health

In the human body, everything is "vascularized." Every cell needs to be supplied with nutrients and oxygen. This critical task falls to our vascular system, and more specifically the capillary vessels. The condition of our vascular system affects how well nutrient and oxygen delivery is accomplished, which in turn affects our entire state of well-being.

We chose Primary Source OPC, the authentic, Dr. Masquelier's™ Original OPCs as the central ingredient in all of our formulas for its clinically proven ability to protect, strengthen and repair the collagen and elastin (protein) that make up our vascular system. Primary Source OPC protects the inner walls of our blood vessels and capillaries against destructive enzymes, decay and free radical damage. Keeping vascular collagen healthy is critically important for vessel suppleness, strength and smoothness of our veins, arteries and capillaries so blood can flow unobstructed. A complete and un-hindered blood flow is, without a doubt, the most essential physiological function in the body. Blood supply is vitally important for all cells and organs and proper functioning of the heart. Primary Source OPC GoldBlend, it could be said, is the nutrient of the vascular system.

Optimizing Total Body Nourishment Through A Stronger Vascular System

Our blood and the network of vessels it travels through are the transport system that delivers vital nutrients to all tissues of the body. A network of healthy blood vessels including arteries, veins and capillaries is critically important to optimum nourishment of the body.

The most important are the capillaries. All other segments of the vascular tree subservise the ultimate aim of getting adequate blood flow through the capillaries. In its passage through the thin walls of the capillaries, the blood delivers nutrients and oxygen to tissues and takes away waste products resulting from tissue cell metabolism. Unobstructed microcirculation of blood to the cells of the tissues and organs of our bodies is crucial. If inhibited by occluded, broken or leaking arteries and capillaries, nutrients that are essential to optimal health are not efficiently delivered to the sites in the body where they are needed to do their work – making you feel your best. A healthy circulatory system affects your energy level; it affects your immune response; it affects your vitality and, ultimately, your entire state of well-being.

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Given the importance of coenzyme Q10 to optimal cellular energy production, use of this compound as a treatment for diseases other than cancer has been explored. Most of these investigations have focused on coenzyme Q10 as a treatment for cardiovascular disease. In patients with cancer, coenzyme Q10 has been shown to protect the heart from anthracycline-induced cardiotoxicity (anthracyclines are a family of chemotherapy drugs, including doxorubicin, that have the potential to damage the heart). Stimulation of the immune system by this compound has also been observed in animal studies and in humans without cancer. In part because of its immunostimulatory potential, coenzyme Q10 has been used as an adjuvant therapy in patients with various types of cancer.

While coenzyme Q10 may show indirect anticancer activity through its effect(s) on the immune system, there is evidence to suggest that analogs of this compound can suppress cancer growth directly. Analogs of coenzyme Q10 have been shown to inhibit the proliferation of cancer cells in vitro and the growth of cancer cells transplanted into rats and mice. In view of these findings, it has been proposed that analogs of coenzyme

Q10 may function as antimetabolites to disrupt normal biochemical reactions that are required for cell growth and/or survival and, thus, that they may be useful for short periods of time as chemotherapeutic agents.

In animal studies, coenzyme Q10 has been administered by injection. In humans, it is usually taken orally as a pill (tablet or capsule), but intravenous infusions have been given. Coenzyme Q10 is absorbed best with fat; therefore, lipid preparations are better absorbed than the purified compound. In human studies, supplementation doses and administration schedules have varied, but usually have been in the range of 90 to 390 mg/day.



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