

## Coenzyme Q10

Cat. No. COEC-013

Lot. No. (See product label)

## Introduction

**Description** Coenzyme Q10 is an electron transport chain component of the mitochondria, which assists proton and

electron transfer across the inner mitochondrial membrane. Studies indicate that Coenzyme Q10 can protect human endothelial cells from oxidative damage by modulating the nitric oxide pathway. In addition, Coenzyme Q10 inhibits LDL oxidation, a major process in the development of atherosclerosis. Coenzyme Q10 is known to suppress the down regulation of NOS3 (endothelial nitric oxide synthase, eNOS) and up-regulation of NOS2 (inducible nitric oxide synthase, iNOS). As a result of its ability to bind

Ca2+, Coenzyme Q10 can transport this cation across artificial biomimetic membranes.

**Applications** A mitochondrial transporter chain component

**Synonyms** CoQ10; Ubidecarenone; Ubiquinone-10; Q-10

## **Product Information**

Appearance Powder

Form Solid

**CAS No.** 303-98-0

Molecular

C59H90O4

Formula

**Molecular** 863.34

Weight

*Purity* ≥98%

Melting

48-52° C

Point

**Boiling** ~869.0° C at 760 (Predicted)

**Point** 

**Solubility** Soluble in water (partly), ethanol (5 mM), chloroform (50 mg/ml), and DMF (~10 mg/ml).

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1/1