CREATIVE BIOMART®
Assay Kit

Cholesterol/Cholesteryl Ester Quantitation Kit II

Product Information

Cat.No. Kit-0223

Product Overview

Cholesterol/Cholesteryl Ester Quantitation Kit II is a quantitative colorimetric determination of cholesterol and cholesteryl ester at 450 nm.

Description

Cholesterol is an essential molecule in all animal life. It has been involved in both normal development and diseases. The Cholesterol/Cholesteryl Ester Quantitation Kit provides a simple method for sensitive quantification of free cholesterol, cholesteryl esters, or both using a colorimetric method. Most of the cholesterol in blood is in the form of cholesteryl ester. These esters can be hydrolyzed to free cholesterol under the appropriate conditions. In the assay, free cholesterol is oxidized by cholesterol dehydrogenase to generate NADH which reacts with a sensitive probe resulting in strong absorbance at 450 nm. The assay can detect freeor total cholesterol depending upon whether esterase is utilized to hydrolyze cholesterol esters present. Cholesteryl ester can be determined by subtracting the value of free cholesterol from the total cholesterol (cholesterol plus cholesteryl esters). The probe in this kit is more stable, sensitive and specific. The assay can tolerate interferences from various samples significantly.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Keep enzymes and cholesterol standard on ice while using. Read the entire protocol before perform the assay.

Kit Components

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Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Cholesterol Assay Buffer. 25 mlSubstrate Mix (lyophilized). 1 vialEnzyme Mix (lyophilized). 1 vialEsterase (lyophilized). 1 vialCholesterol Standard (2μg/μl). 100μl

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Culture Medium, Plasma, Serum, Tissue Culture Supernatant, Urine

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