CREATIVE BIOMART®
Assay Kit

Cholesterol/Cholesteryl Ester Quantitation Kit

Product Information

Cat.No. Kit-0222

Product Overview

Cholesterol/Cholesteryl Ester Quantitation Kit is used for detecting total cholesterol (cholesterol and cholesteryl esters) in the presence of cholesterol esterase, or free cholesterol in the absence of cholesterol esterase in the reaction.

Description

The Cholesterol/Cholesteryl Ester Quantitation Kit provides a simple method for sensitive quantification of free cholesterol, cholesteryl esters, or both by colorimetric or fluorometric methods. Majority of the cholesterol in blood is in the form of cholesteryl esters which can be hydrolyzed to cholesterol by cholesterol esterase. Cholesterol is then oxidized by cholesterol oxidase to yield H2O2 which reacts with a sensitive cholesterol probe to produce color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). The assay detects total cholesterol (cholesterol and cholesteryl esters) in the presence of cholesterol esterase or free cholesterol in the absence of cholesterol esterase in the reaction. Cholesteryl ester can be determined by subtracting the value of free cholesterol from the total (cholesterol plus cholesteryl esters).

Applications

Measurement of cholesterol in various tissues/cellsAnalysis of lipid metabolism in various cells

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the experiment. Keep enzymes and cholesterol standard on ice while using.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Cholesterol/Cholesteryl Ester Quantitation Kit

Kit Components

Cholesterol Assay Buffer 25 mLCholesterol Probe (in DMSO, anhydrous) 200 μLEnzyme Mix (lyophilized) 1 vialCholesterol Esterase (lyophilized) 1 vialCholesterol Standard (2 μg/μL) 100 μL

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA