CREATIVE BIOMART®
Assay Kit

AF HDL and LDL/VLDL Assay Kit

Product Information

Cat.No. Kit-0059

Product Overview

AF HDL and LDL/VLDL Assay Kit is a quantitative colorimetric/fluorimetric determination of HDL and LDL/VLDL.

Description

CHOLESTEROL concentrations in High-Density Lipoprotein (HDL) and Low-Density (LDL)/Very-Low-Density (VLDL) Lipoproteins are strong predictors for coronary heart disease. Functional HDL offers protection by removing cholesterol from cells and atheroma. Higher concentrations of LDL and lower concentrations of functional HDL are strongly associated with cardiovascular disease due to higher risk of atherosclerosis. The balances between high- and low-density lipoproteins are solely genetically determined, but can be changed by medications, food choices and other factors. Simple, direct and automation-ready procedures for measuring HDL and LDL/VLDL concentrations are very desirable. AF HDL and LDL/VLDL Assay Kit is based on our improved PEG precipitation method in which HDL and LDL/VLDL are separated, and cholesterol concentrations are determined using a single Working Reagent that combines cholesterol ester hydrolysis, oxidation and color reaction in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at λem/ex = 585/530nm is directly proportional to total cholesterol concentration in the sample.

Applications

Direct Assays: HDL and LDL/VLDL cholesterol in serum samples.Pharmacology: evaluation of drugs on cholesterol metabolism.

Usage

For research use only (RUO)

Storage

Store PBS and Precipitation Reagent at room temperature and other reagents at -20°C.Shelf life: 6 months after receipt.

Kit Components

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

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PBS 1.5 mL x 2Assay Buffer 20 mLDye Reagent 120 μLPrecipitation Reagent 1.5 mLEnzyme Mix 120 μLStandard 1 mL 300mg/dL cholesterol

Detection method Colorimetric, Fluorometric

Compatible Sample Types

Serum

Features & Benefits

Sensitive and accurate: Linear detection range in 96-well plate: 1 to 100 mg/dL cholesterol for colorimetric assays and 0.2 to 10 mg/dL for fluorimetric assays.Convenient: Room temperature assay. No 37°C heater is needed.

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