CREATIVE BIOMART®
Assay Kit

LDL Uptake Cell-Based Assay Kit

Product Information

Cat.No. Kit-0512

Product Overview

LDL Uptake Cell-Based Assay Kit is a tool for studying LDL uptake and regulation at the cellular level.

Description

Cholesterol is an essential cellular component and maintenance of cholesterol homeostasis is critical for normal physiological functions. Elevated levels of plasma cholesterol are associated with various pathological conditions, most notably coronary heart disease where high cholesterol levels lead to foam cell formation and plaque buildup in arteries, potentially resulting in a heart attack or stroke. Regulation of cellular cholesterol metabolism and plasma cholesterol levels depends on low-density lipoprotein (LDL) receptor-mediated LDL uptake into specific cells.LDL is the major carrier of cholesterol in the blood, accounting for more than 60% of total plasma cholesterol. LDL is taken up by hepatic and extrahepatic tissues through receptor-mediated endocytosis triggered by apoB-100-LDL receptor interaction. The internalized LDL particle is transported to lysosomes where it isdegraded to free cholesterol and amino acids. In humans, the liver is the most important organ for LDL catabolism and LDL receptor activity. In the liver, LDL can be regulated by pharmacologic intervention.

Usage

For research use only (RUO)

Storage

Kit will arrive packaged as a 4°C kit. For best results, remove components and store as stated below.This kit will perform as specified if stored as described below and used before the expiration date indicated on the outside of the box.Component StorageCell-Based Assay Fixative Room TemperatureRabbit Anti-LDL Receptor Primary -20°CCell-Based Assay Blocking Solution 4°CLDL-DyLight 550 4°CDyLight 488-Conjugated Goat Anti- Rabbit IgG Secondary Antibody -20°C

Kit Components

Cell-Based Assay Fixative 1 vialRabbit Anti-LDL Receptor Primary Antibody 1 vialCell-Based Assay

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Blocking Solution 1 vialLDL-DyLight 550 1 vialDyLight 488-Conjugated Goat Anti- Rabbit IgG Secondary Antibody 1 vialNote: DyLight 550 and DyLight 488 are products of Thermo Fisher Scientific Inc. If any of the items listed above are damaged or missing please contact us.

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