CREATIVE BIOMART®
Assay Kit

Cholesterol Detection Kit (cell-based)

Product Information

Cat

Kit-2317

Cat.No. Kit-2317

Product Overview

Cholesterol is an essential structural component of animal cell membranes. It is required to maintain membrane structural integrity and fluidity. Cholesterol also serves as a precursor for the biosynthesis of several hormones, bile acid and vitamin D. Plasma membrane contains majority of the cellular cholesterol (80-90%) whereas little cholesterol resides in endoplasmic reticulum and in mitochondrial membrane. Transport of intracellular cholesterol within the cells to different compar;ents is through vesicular and non-vesicular pathways. Defects in these transport processes can alter cellular cholesterol metabolism resulting in pathological conditions. Filipin III is widely used as a probe for sterol localization in membranes. Interaction with cholesterol alters Filipin absorption and fluorescence spectra. This assay provides a simple, easy to perform, histochemical method of identification of unesterified cholesterol.

Applications

Screen/study/characterize stimulators/inhibitors that affect cholesterol transport and localization in a variety of cells.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Fixative Solution; Assay Buffer; Staining Dye

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Detection method	Light and Fluorescence Microscopy (Ex/Em = 340-380/385-470 nm).

Features & Benefits

Simple, easy to perform, histochemical method of identification of unesterified cholesterol.
Includes U-18666A, a cholesterol transport inhibitor.

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