CREATIVE BIOMART®
Assay Kit

Adipogenesis Assay Kit

Product Information

Cat.No. Kit-0053

Product Overview

Adipogenesis Assay Kit is used for quantifying triglyceride accumulation in cells and tissues.

Description

Adipogenesis is the process of differentiation of different cell types into adipocytes, the primary fat storage cell type. The accumulation of adipocytes is the basis for obesity, a significant risk factor in many diseases, including diabetes, atherosclerosis, cancer and cardiovascular disease, etc. Adipocytes accumulate triglycerides, in the form of lipid droplets which can be measured. The Adipogenesis Assay Kit quantifies triglyceride accumulation in cells and tissues. In the assay, triglycerides are efficiently solubilized then hydrolyzed to glycerol which is subsequently oxidized to convert the probe to generate color (λmax = 570 nm) and fluorescence (Ex/Em = 535/587 nm). The kit can detect triglyceride in as few as a thousand or less differentiated 3T3-L1 cells with triglyceride detection linear range 0.2 to 10 nmol. The high detection sensitivity and the convenient microplate assay format make the kit a convenient tool for studying the effect of adipogenesis inducers or inhibitors, or to screen drugs.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm Adipogenesis Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Read the entire protocol before performing the assay. Use the kit within two months after reconstitution.

Kit Components

Adipogenesis Assay Buffer, cap code: WM 25 mLLipid Extraction Solution, cap code: NM 10

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mLAdipogenesis Probe (in DMSO solution), cap code: Red 200 µLLipase (lyophilized), cap code: Blue 1 vialAdipogenesis Enzyme Mix (lyophilized), cap code: Green 1 vialTriglyceride Standard (1 mM), cap code: Yellow 0.3 mL

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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

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