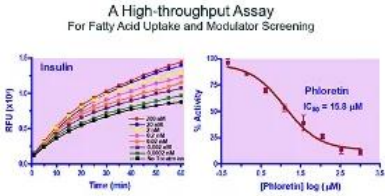
CD Fatty Acid Uptake Assay Kit

Catalog Number: AKBA171

Size: 100 Tests

Price: Online Inquiry



Product Information

Product Name	CD Fatty Acid Uptake Assay Kit
Applications	For quantitative determination of long-chain fatty acid uptake in whole cells and evaluation of effects of ligands or drugs on fatty acid transport.
Features	Safe. Non-radioactive assay. Fast and Sensitive. Homogenous “add-and-read” assay. No wash, lysis, or staining steps are needed. Simple and Convenient. Can be automated as a high-throughput assay for fatty acid transport and modulator screens in cells.
Detection Method	FL 488/523nm
Sample Type	Adipocytes and other fatty acid-transporting cells. Or compounds that affect fatty acid uptake activity
Species	All
Assay Time	2 hrs
Expiration Date	12 months
Description	LONG CHAIN FATTY ACIDS (LCFA) are important fuel sources for animals as substrates in β-oxidation and serve as building blocks for many different cellular structures. Long-chain unesterified fatty acids (LCFA) are transported into cells using membrane transport proteins, and increased LCFA levels in cells are common in diabetes, obesity-related diseases, cardiovascular disease, and certain forms of cancer. Therefore, fatty acid uptake is a significant therapeutic target for the treatment of metabolic disorders and an important topic for metabolic research.BioAssay Systems’ fluorescent cell-based fatty acid uptake assay uses a fluorescent fatty acid analog which is taken up by fatty acid transporter proteins and accumulates within the cell. Quench reagent is added to block extracellular fluorescent signals in the medium. The adherent cells import the fatty acid analog, and the bottom-read fluorimeter measures the increase in fluorescence signal at λex/em = 488/523nm. This high-throughput assay can be applied to assess fatty acid uptake activity in cells and to screen for activators and inhibitors.
Shipping Conditions	Shipping: RT
Storage	Storage: -20°C upon receipt