CREATIVE BIOMART®
Assay Kit

CETP Activity Fluorometric Assay Kit II

Product Information

Cat.No. Kit-0209

Product Overview

CETP Activity Assay Kit II (Fluorometric) uses a donor molecule containing a fluorescent self-quenched phospholipid that is transferred to an acceptor molecule in the presence of Cholesteryl Ester Transfer Protein (CETP). CETP-mediated transfer of the fluorescent phospholipid to the acceptor molecule results in an increase in fluorescence (Ex/Em = 480/511 nm). The fluorometric intensity is directly proportional to the amount of phospholipid transferred. The kit contains rabbit serum and torcetrapib (CETP inhibitor) as positive and negative control, respectively, for assay validation.This assay can measure PLTP activity in plasma and serum but can also be used for testing activity of recombinant CETP protein.

Description

Cholesteryl Ester Transfer Protein (CETP) is a member of the lipid transfer/lipopolysaccharide binding protein gene family. CETP is plasma protein that transfers a cholesteryl ester from HDL to LDL or VLDL in exchange for a triglyceride. HDL plays an important role in lipid metabolism and cardiovascular health. HDL transports cholesterol to the liver for excretion or to steroidogenic tissues for steroid synthesis. HDL also plays an important role in the reverse cholesterol transport pathway, removing cholesterol from lipid-filled macrophages, protecting against atherosclerosis. Because of this function, CETP is viewed as a target to increase HDL, with CETP inhibition an active area of research and several CETP inhibitors at various stages of drug development.

Applications

Functional Studies

Target Species

Reacts with: Rabbit, HumanPredicted to work with: all Mammals

Storage

Store kit at 4°C in the dark immediately upon receipt, except fromthe CETP Positive Control which should be stored at -20°C. Kithas a storage time of 1 year from receipt, providing componentshave

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not been reconstituted.Refer to list of materials supplied for storage conditions of individualcomponents. Observe the storage conditions for individual preparedcomponents in section 5.Aliquot components in working volumes before storing at therecommended temperature. Reconstituted components are Stablefor 2 months.

Kit Components

Components 100 testsCETP Acceptor Molecule 1 x 0.5mlCETP Assay Buffer 1 x 20mlCETP Inhibitor 1 x 10µlCETP Positive Control 1 x 0.1mlDonor Molecule 1 x 0.5ml

Detection method Fluorescent

Compatible Sample Types

Serum, Plasma, Purified protein