CREATIVE BIOMART®
Assay Kit

Complex IV Human Specific Activity Microplate Assay Kit

Product Information

Cat.No. Kit-0244

Product Overview

This rapid multiplexing microplate kit is used to determine both the activity and quantity of cytochrome c oxidase in a human sample with greater speed and simplicity. The ratio of the two is a measure of specific activity. The COX enzyme is immunocaptured within the wells of the microplate and the activity is determined by following the oxidation of reduced Cytochrome c colorimetrically by the absorbance change at 550 nm. Subsequently, in these same wells the quantity of the enzyme can then be determined by adding a COX specific detector antibody and the appropriate alkaline phophatase conjugated antibody; this phosphatase changes a substrate from colorless to yellow at 405 nm. This reaction takes place in a time dependent manner proportional to the amount of protein captured in the wells. Included in this kit for performance of the multiplexing assay are buffers, detergent, substrates, and 96-well microplate with monoclonal antibody pre-bound to the wells of the plate, allowing for a stream-lined assay.

Size

1 x 96 well plate

Applications

Functional Studies

Target Species

Reacts with: Cow, Human

Storage

Tube 1, 2, 3, A, B, Detergent and the covered microplate should bestored at 4°C. Tube 4 and Reagent C should be stored at -20°C or preferably -80°C.

Kit Components

Components Identifier 96 tests20X Buffer 1 x 15ml96-well microplate (12 strips) 1 unitAP Development Reagent 1 x 400µlAP label 2500X Tube B 1 x 12µlDetector antibody Tube A 1 x 1mlDetergent 1 x

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1mlDevelopment buffer Tube 3 1 x 10mlReagent C (Cytochrome c) 1 x 1mlWash Buffer Tube 2 1 x 2ml

Detection method Colorimetric

Compatible Sample Types

Cell culture extracts, Tissue

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