



Fumarase Specific Activity Assay Kit

Product Information

Cat.No.

Kit-0345

Product Overview

Fumarase Specific Activity Assay Kit is a novel assay that uses a high affinity monoclonal capture antibody to selectively isolate fumarase (FH), which removes all other enzymes of the Krebs cycle and NAD⁺/NADH utilizing enzymes. After isolation and subsequent measurement of the enzyme's functional activity, the quantity of isolated FH is measured in the same well by adding a second monoclonal detector antibody, which is quantified using a colorimetric label (HRP). Both reactions take place in time-dependent manners proportional to the amount of enzyme captured in each well. By combining activity and quantity measurements, the enzyme's relative specific activity can be determined. Specific activity is useful for measuring up or down regulation of activity by site-specific modification or damage, and in response to specific inhibitors.

Applications

Sandwich ELISA

Target Species

Reacts with: Rat, Cow, Human Does not react with Mouse

Storage

All components are shipped cold. Upon receipt store 200X Fumarate, 200X □NAD⁺, 100X Coupler and 100X Reagent Dye at -20°C or preferably at -80°C for longer stability. Store all other components at 4°C.

Kit Components

Components 96 tests 100X Coupler 1 x 250µl 100X Detector Antibody 1 x 130µl 100X HRP Label 1 x 130µl 100X Reagent Dye 1 x 250µl 10X Blocking Buffer 1 x 10ml 1X Base Buffer 1 x 25ml 2000X Malate dehydrogenase 1 x 20µl 200X betaNAD⁺ 1 x 250µl 200X Fumarate (1M) 1 x 250µl 20X Wash Buffer 1 x 25ml 96-well microplate (12 strips) 1 unit Extraction Buffer 1 x 15ml TMB Development Solution 1 x 12ml



CREATIVE **BIOMART**[®]
Assay Kit

Fumarase Specific Activity Assay Kit

Detection method Colorimetric

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