CREATIVE BIOMART®
Assay Kit

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, HumanDoes not react withMouse

Storage

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

Kit Components

Components 96 tests100X Coupler 1 x 250µl100X Detector Antibody 1 x 130µl100X HRP Label 1 x 130µl100X Reagent Dye 1 x 250µl10X Blocking Buffer 1 x 10ml1X Base Buffer 1 x 25ml2000X Malate dehydrogenase 1 x 20µl200X betaNAD+ 1 x 250µl200X Fumarate (1M) 1 x 250µl20X Wash Buffer 1 x 25ml96-well microplate (12 strips) 1 unitExtraction Buffer 1 x 15mlTMB Development Solution 1 x 12ml

Detection method Colorimetric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA