CREATIVE BIOMART®
Assay Kit

# Mitochondrial Complex I/NADH-CoQ Reductase Activity Assay Kit

## Product Information

**Product Overview**

Significance: Mitochondrial Complex I (EC 1.6.5.3), also known as NADH–CoQ reductase or NADH dehydrogenase, is the largest protein complex in the mitochondrial inner membrane. It catalyzes electron transfer from NADH to coenzyme Q and is a major site of superoxide generation in the respiratory electron transport chain. Its activity reflects both ETC function and reactive oxygen species production.
Principle: Complex I catalyzes the oxidation of NADH to NAD<sup>+</sup>. The rate of NADH oxidation is determined by monitoring the decrease in absorbance at 340 nm.

**Size**

100t/96s

**Storage**

Store at -20 °C. Shelf life: 6 months.

**Detection method** Spectrophotometer/Microplate Reader

**Technical Notes**

For measurements using a 96-well plate, a 96-well UV plate must be used.

**Materials Required but Not Supplied**

UV spectrophotometer or microplate reader, benchtop centrifuge, water bath, adjustable pipettes, quartz cuvettes or quartz 96-well plates, mortar and pestle, ice, distilled water.

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