CREATIVE BIOMART®
Assay Kit

Mitochondrial Complex V/ATP Synthase Activity Assay Kit

Product Information

Product Overview

Mitochondrial complex V, also known as F₁F₀-ATP synthase, is widely distributed in mitochondria of animals, plants, microorganisms, and cultured cells. It consists of F₁ and F₀ subunits and utilizes the proton electrochemical gradient generated by the respiratory chain to synthesize ATP, while also catalyzing ATP hydrolysis in the reverse reaction. Complex V is also present in chloroplasts, heterotrophic bacteria, and photosynthetic bacteria and is a key enzyme in oxidative phosphorylation and photophosphorylation.
Complex V activity is determined by measuring the rate of inorganic phosphate (Pi) generation during ATP hydrolysis.

Size

50t/24s

Storage

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

Detection method Spectrophotometer

Materials Required but Not Supplied

UV spectrophotometer, benchtop centrifuge, water bath, adjustable pipettes, 1 mL glass cuvettes, mortar, ice, and distilled water.

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