



## Mitochondrial Complex V Activity Assay kit

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Mitochondrial Complex V, also known as F<sub>1</sub>F<sub>0</sub>-ATP synthase, is widely present in the mitochondria of animals, plants, microorganisms and cultured cells, and consists of two subunits, F<sub>1</sub> and F<sub>0</sub>. The enzyme uses the electrochemical gradient of protons produced by the respiratory chain to catalyze the synthesis of ATP, and can also hydrolyze ATP in a reversible process. In addition, complex V also exists in chloroplasts, heterotrophic bacteria and photosynthetic bacteria. Complex V is the key enzyme for mitochondrial oxidative phosphorylation and chloroplast photosynthetic phosphorylation to synthesize ATP.

Complex V hydrolyzes ATP to produce ADP and Pi. The activity of Complex V is determined by measuring the Pi increase rate.

Catalog No.	250144
Size	50 Assays / 100 Assays
Product Category	Enzymatic / Metabolic Assay
Detection Method	Visible spectrophotometry
Storage/Stability	-20°C/1 year
Shipping	Gel Packs