

## Mitochondrial complex V Assay Kit

Mitochondrial complex V Activity Assay Kit (colorimetric)

CATALOG #  
**AAA31538**

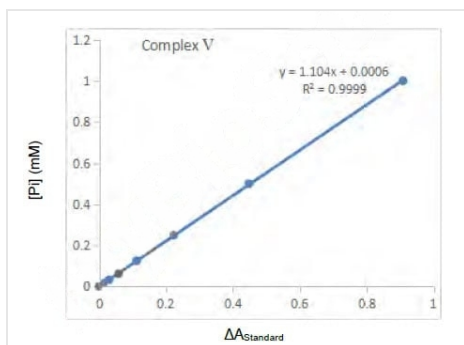
### PRODUCT SYNONYMS

Mitochondrial complex V; Mitochondrial complex V Activity Assay Kit (colorimetric); Mitochondrial complex V assay kit

### PRODUCT SPECIFICATIONS

|                                |                                                                                                                                                                                                                                                                                                                                                |
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| <b>Samples</b>                 | Animal and Plant Tissues, Cells                                                                                                                                                                                                                                                                                                                |
| <b>Application Notes</b>       | Mitochondrial complex V Activity Detection Kit (colorimetric) is specially developed for the detection of complex I activity. The operation is simple and convenient, and the detection is more sensitive and accurate. complex V hydrolyzes ATP to produce ADP and Pi. The activity of complex V is determined by measuring Pi increase rate. |
| <b>Preparation and Storage</b> | The kit is valid for est. 6 months. Please refer to the table below materials supplied and storage conditions to store all the components.<br>Shipping: Gel pack with blue ice.                                                                                                                                                                |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

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| <b>Related Product Information for Mitochondrial complex V assay kit</b> | Principle of the Assay: Mitochondrial respiratory chain complex V, also known as F1F0-ATP synthase, is widely present in the mitochondria of animals, plants, microorganisms and cultured cells. Complex V consists of two subunits, F1 and F0. It could use the electrochemical gradient of protons produced by the respiratory chain to catalyze the synthesis of ATP, and also can hydrolyze ATP in a reversible process. In addition, complex V also exists in chloroplasts, heterotrophic and photosynthetic. Complex V is the key enzyme for mitochondrial oxidative phosphorylation and chloroplast photosynthetic phosphorylation to synthesize ATP. CheKine™ Micro Mitochondrial Complex V Activity Assay Kit provides a convenient tool for detection of Mitochondrial Complex V Activity. The principle is ComplexVhydrolyzes ATP to produce ADP and Pi. The activity of complexVis determined by measuring Pi increase rate. It can be used to determine animal, plant tissue and cell samples. |
| <b>Product Categories/Family for Mitochondrial complex V assay kit</b>   | Cell Metabolism; Biochemical Assay Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

