

Ca²⁺-ATPase assay kit

Ca²⁺-ATPase Activity Assay Kit

CATALOG #
AAA178085

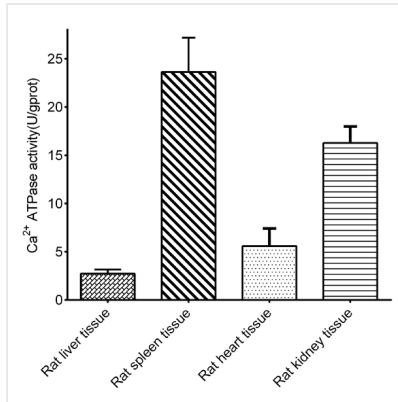
PRODUCT SYNONYMS

Ca²⁺-ATPase; Ca²⁺-ATPase Activity Assay Kit; Ca²⁺-ATPase assay kit

PRODUCT SPECIFICATIONS

Form/Format	Ultrapure water, Normal saline (0.9% NaCl)
Samples	Animal tissue samples
Detection Range	1.18-286.43U/kg wet weight
Sensitivity	1.18U/kgwetweight
Intra-assay Precision	6
Inter-assay Precision	8
Preparation and Storage	Store at 2-8 degree C

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Ca²⁺-ATPase assay kit

Background: ATPase exists on the membrane of tissue cells and organelles. It is a kind of protease on the biological membrane which plays an important role in material transport, energy conversion and information transmission. Ca²⁺ which participates in the regulation of different enzyme systems and cell activities plays many important roles in cells. The flow of Ca²⁺-ATPase on the cell membrane, and Ca²⁺-ATPase consumes ATP to generate the energy needed for ion transport.

Principle of the Assay: ATPase can decompose ATP to produce inorganic phosphorus. The activity of ATPase can be expressed by measuring the production amount of inorganic phosphorus in unit time. In the control system, Ca²⁺-ATPase activity was inhibited, while in the sample system, Ca²⁺-ATPase activity was not inhibited. The difference of inorganic phosphorus content between the sample and the control was the inorganic phosphorus produced by Ca²⁺-ATPase during the incubation time. The activity of Ca²⁺-ATPase was determined by inorganic phosphorus production.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/assay-kits/ca2-atpase/178085>