

General Adenosine Triphosphate (ATP) ELISA Kit | ATP elisa kit

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CATALOG #
AAA181907

REACTIVITY
General

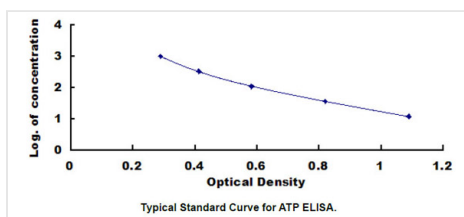
PRODUCT SYNONYMS

Adenosine Triphosphate (ATP); General Adenosine Triphosphate (ATP) ELISA Kit; Adenosine-5'-Triphosphate; ATP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP. No significant cross-reactivity or interference between ATP and analogues was observed.
Sequence Length	55
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Competitive
Detection Range	12.35-1,000ng/mL
Sensitivity	< 4.33ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ATP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ATP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of ATP in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to ATP has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled ATP and unlabeled ATP (Standards or samples) with the pre-coated antibody specific to ATP. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of ATP in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of ATP in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1161208
Molecular Weight	6,523 Da
NCBI Official Full Name	adenosine triphosphate subunit 8 (mitochondrion)
UniProt Protein Name	ATP synthase protein 8
UniProt Gene Name	MT-ATP8
UniProt Synonym Gene Names	ATP8; ATPASE8; MTATP8

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.

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Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/adenosine-triphosphate-atp/181907>