

Rat Na⁺/K⁺-ATPase (Na/K ATPase) ELISA Kit | Na/K ATPa elisa kit

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CATALOG #
AAA246649

REACTIVITY
Rat

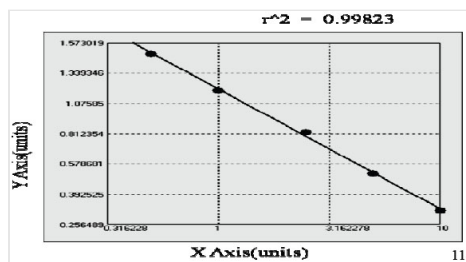
PRODUCT SYNONYMS

Na⁺/K⁺-ATPase (Na/K ATPase); Rat Na⁺/K⁺-ATPase (Na/K ATPase) ELISA Kit; Na/K ATPa elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/ml
Intended Uses	This Na ⁺ /K ⁺ ATP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat Na ⁺ /K ⁺ ATP. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Na/K ATPa elisa kit

Principle of the assay: Na⁺/K⁺ATP ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Na⁺/K⁺ATP antibody and an Na⁺/K⁺ATP-HRP conjugate. The assay sample and buffer are incubated together with Na⁺/K⁺ATP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the Na⁺/K⁺ATP concentration since Na⁺/K⁺ATP from samples and Na⁺/K⁺ATP-HRP conjugate compete for the anti-Na⁺/K⁺ATP antibody binding site. Since the number of sites is limited, as more sites are occupied by Na⁺/K⁺ATP from the sample, fewer sites are left to bind Na⁺/K⁺ATP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Na⁺/K⁺ATP concentration in each sample is interpolated from this standard curve.

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.

