

Rat alpha1 Antitrypsin ELISA Kit | alpha1-AT elisa kit

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CATALOG #
AAA82595

REACTIVITY
Rat

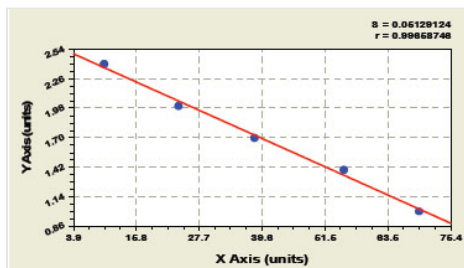
PRODUCT SYNONYMS

alpha1 Antitrypsin; Rat alpha1 Antitrypsin ELISA Kit; Rat a1 Antitrypsin ELISA Kit; alpha1-AT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	10-250ng/mL
Sensitivity	1.0ng/ml
Intended Uses	This alpha1AT ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat alpha1AT. 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 alpha1-AT elisa kit

Principle of the Assay: alpha1AT ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-alpha1AT antibody and an alpha1AT-HRP conjugate. The assay sample and buffer are incubated together with alpha1AT-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 alpha1AT concentration since alpha1AT from samples and alpha1AT-HRP conjugate compete for the anti-alpha1AT antibody binding site. Since the number of sites is limited, as more sites are occupied by alpha1AT from the sample, fewer sites are left to bind alpha1AT-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The alpha1AT concentration in each sample is interpolated from this standard curve.

Product Categories/Family for alpha1-AT elisa kit

Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	2804195
Molecular Weight	45,729 Da
NCBI Official Full Name	alpha1-antitrypsin
UniProt Protein Name	Alpha-1-antiproteinase
UniProt Entry Name	A1AT_CALCIN

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/alpha1-at-rat-elisa-kits/alpha1-antitrypsin/82595>