

Human Alpha-amylase 1 ELISA Kit | AMY1 elisa kit

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CATALOG #
AAA101768

REACTIVITY
Human

PRODUCT SYNONYMS

Alpha-amylase 1; Human Alpha-amylase 1 ELISA Kit; AMY1/Alpha-amylase 1/Amylase Alpha 1; Salivary/1; 4-alpha-D-glucan glucanohydrolase 1/Salivary alpha-amylase; AMY1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ALT. No significant cross-reactivity or interference between ALT and analogues was observed.
Sequence Length	511
Assay Type	Competitive ELISA, Coated with Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.469-30ug/ml
Sensitivity	0.281ug/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ALT were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ALT were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a AMY1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.077	0.419	0.572	1.011	1.365	1.956	2.376	2.946

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AMY1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ALT antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-ALT antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the ALT amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ALT can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254482
NCBI GeneID	276
NCBI Accession #	NP_004029.2
NCBI GenBank Nucleotide #	NM_004038.3
Molecular Weight	57,768 Da
NCBI Official Full Name	alpha-amylase 1
NCBI Official Synonym Full Names	amylase, alpha 1A (salivary)
NCBI Official Symbol	AMY1A
NCBI Official Synonym Symbols	AMY1
NCBI Protein Information	alpha-amylase 1
UniProt Protein Name	Alpha-amylase 1
UniProt Gene Name	AMY1A
UniProt Synonym Gene Names	AMY1
UniProt Entry Name	AMY1_HUMAN

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/amy1-human-elisa-kits/alpha-amylase-1/101768>