

## Human Alpha-amylase (AMY1) ELISA Kit | AMY1 elisa kit

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CATALOG #  
**AAA331991**

REACTIVITY  
**Human**

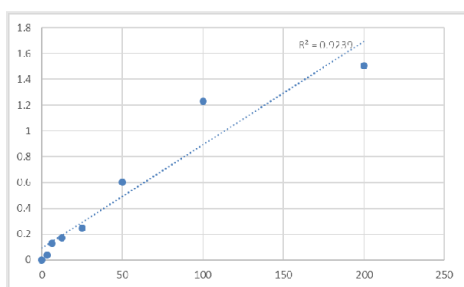
### PRODUCT SYNONYMS

Alpha-amylase (AMY1); Human Alpha-amylase (AMY1) ELISA Kit; AMY1; 1; 4-alpha-D-glucan glucanohydrolase 1; Salivary alpha-amylase; AMY1A; AMY1B; AMY1C; AMY1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Alpha-amylase (AMY1) ELISA Kit has high sensitivity and excellent specificity for detection of Human AMY1. No significant cross-reactivity or interference between Human AMY1 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence Length         | 511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Alpha-amylase (AMY1) Standard Curve.

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for AMY1 elisa kit | <p>Description: This Human Alpha-amylase (AMY1) ELISA Kit employs a two-site sandwich ELISA to quantitate AMY1 in samples. An antibody specific for AMY1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AMY1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AMY1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of AMY1 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: The alpha-amylases hydrolyze alpha-1,4-glucoside bonds in polymers of glucose units. Kamaryt and Laxova found 2 amylase isoenzymes in serum, one produced by the salivary gland and the second by the pancreas. In 11 of 120 children, a duplication of pancreatic enzyme band was found on starch gel electrophoresis and in each case 1 parent also showed the duplication. In the mouse the salivary and pancreatic amylases are determined by genes at closely linked loci. The separate loci in the human were designated AMY1 (salivary) and AMY2 (pancreatic). Polymorphism of both the salivary and the pancreatic serum amylases has been demonstrated in man. Ward et al. (1971) studied amylase in saliva and identified electrophoretic variants.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------|-----------------|
| NCBI GI #                  | 56549660        |
| NCBI Accession #           | NP_001008222.1  |
| NCBI GenBank Nucleotide #  | NP_001008222.1  |
| UniProt Accession #        | P04745          |
| NCBI Official Full Name    | 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/human-elisa-kits/alpha-amylase-amy1/331991>