

## Human Alpha-1-Antichymotrypsin (a1ACT) ELISA Kit | a1ACT elisa kit

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CATALOG #  
**AAA65554**

REACTIVITY  
**Human**

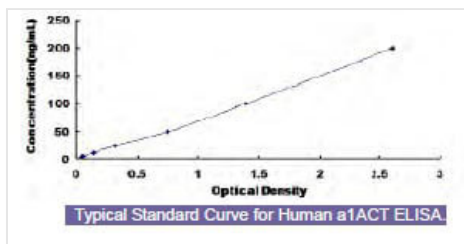
### PRODUCT SYNONYMS

Alpha-1-Antichymotrypsin (a1ACT); Human Alpha-1-Antichymotrypsin (a1ACT) ELISA Kit; A1-ACT; SERPINA3; AACT; ACT; GIG24; GIG25; Serpin Peptidase Inhibitor Clade A Member 3(Alpha-1 Antiproteinase; Antitrypsin); Cell growth-inhibiting gene 24/25 protein; a1ACT elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of a1ACT. No significant cross-reactivity or interference between a1ACT and analogues was observed.                                |
| Sequence Length         | 95                                                                                                                                                                                                         |
| Samples                 | Serum, plasma and other biological fluids.                                                                                                                                                                 |
| Assay Type              | Sandwich                                                                                                                                                                                                   |
| Detection Range         | 3.125-200ng/mL                                                                                                                                                                                             |
| Sensitivity             | 1.42ng/mL                                                                                                                                                                                                  |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level a1ACT 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 a1ACT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%  |
| Preparation and Storage | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for a1ACT elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of a1ACT in human serum, plasma and other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to a1ACT. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to a1ACT. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain a1ACT, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of a1ACT in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 50659080                                                                                       |
| NCBI GeneID                      | 12                                                                                             |
| NCBI Accession #                 | NP_001076.2                                                                                    |
| NCBI GenBank Nucleotide #        | NM_001085.4                                                                                    |
| UniProt Accession #              | P01011; Q13703; Q2TU87; Q2TU88; Q59GP9; Q6LBY8; Q6LDT7; Q6NSC9; Q8N177; Q96DW8; Q9UC47; B3KVQ7 |
| Molecular Weight                 | 10,717 Da                                                                                      |
| NCBI Official Full Name          | alpha-1-antichymotrypsin                                                                       |
| NCBI Official Synonym Full Names | serpin family A member 3                                                                       |
| NCBI Official Symbol             | SERPINA3                                                                                       |
| NCBI Official Synonym Symbols    | ACT; AACT; GIG24; GIG25                                                                        |
| NCBI Protein Information         | alpha-1-antichymotrypsin                                                                       |
| UniProt Protein Name             | Alpha-1-antichymotrypsin                                                                       |
| UniProt Gene Name                | SERPINA3                                                                                       |
| UniProt Synonym Gene Names       | AACT; ACT                                                                                      |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/alpha-1-antichymotrypsin-a1act/65554>