

## Human Cathepsin S ELISA Kit | CTSS elisa kit

Human Cathepsin S PicoKine Quick ELISA Kit

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA126821</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

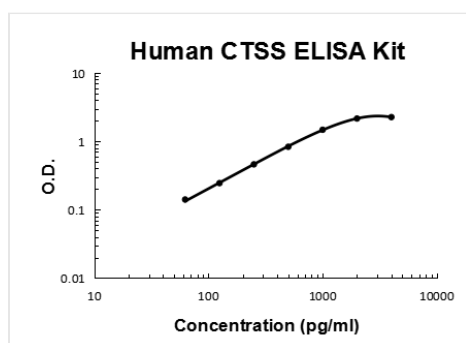
### PRODUCT SYNONYMS

Cathepsin S; Human Cathepsin S PicoKine Quick ELISA Kit; CTSS elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Human                                                                                                                                                                                           |
| Specificity                                | Natural and recombinant Human CTSS                                                                                                                                                              |
| Assay Type                                 | Sandwich                                                                                                                                                                                        |
| Samples                                    | Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)                                                                                                                       |
| Detection Range                            | 62.5 pg/ml - 4,000 pg/ml                                                                                                                                                                        |
| Sensitivity                                | <10 pg/ml                                                                                                                                                                                       |
| Applicable Applications for CTSS elisa kit | ELISA                                                                                                                                                                                           |
| Intra-assay Precision                      | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.                                               |
| Inter-assay Precision                      | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.                                           |
| Preparation and Storage                    | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.) |

### IMAGES



Standard Curve (Sample)

Human CTSS PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for CTSS elisa kit | <p>Background: Cathepsin S, also known as CTSS, is a protein that in humans is encoded by the CTSS gene. A member of the peptidase C1 family, CTSS gene is a lysosomal cysteine proteinase that may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. By fluorescence in situ hybridization(FISH), this gene is mapped to 1q21.3. The encoded protein can function as an elastase over a broad pH range in alveolar macrophages. The bond-specificity of this proteinase is in part similar to the specificities of cathepsin L and cathepsin N.</p> <p>Principle of the Assay: The Quick Picokine™ Human CTSS Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CTSS in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human CTSS protein as standards. To measure Human CTSS, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human CTSS in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CTSS in the sample.</p> |
| Product Categories/Family for CTSS elisa kit   | PicoKine ELISA Kits, Fast ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 315075311                                      |
| NCBI GeneID                      | 1520                                           |
| NCBI Accession #                 | NP_001186668.1                                 |
| NCBI GenBank Nucleotide #        | NM_001199739.1                                 |
| UniProt Accession #              | P25774; Q5T5I0; Q6FHS5; Q9BUG3; B4DWC9; D3DV05 |
| Molecular Weight                 | 37,496 Da                                      |
| NCBI Official Full Name          | cathepsin S isoform 2 preproprotein            |
| NCBI Official Synonym Full Names | cathepsin S                                    |
| NCBI Official Symbol             | CTSS                                           |
| NCBI Protein Information         | cathepsin S                                    |
| UniProt Protein Name             | Cathepsin S                                    |
| UniProt Gene Name                | CTSS                                           |
| UniProt Entry Name               | CATS_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.