



# Human Serine protease HTRA1(HTRA1) ELISA kit

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>         | CSB-EL010901HU                                                                                           |
| <b>Abbreviation</b>         | HTRA1                                                                                                    |
| <b>Target Name</b>          | HtrA serine peptidase 1                                                                                  |
| <b>Uniprot No.</b>          | Q92743                                                                                                   |
| <b>Alias</b>                | ARMD7, HtrA, L56, ORF480, PRSS11, IGFBP5-protease protease, serine, 11 (IGF binding)                     |
| <b>Product Type</b>         | ELISA Kit                                                                                                |
| <b>Immunogen Species</b>    | Homo sapiens (Human)                                                                                     |
| <b>Sample Types</b>         | serum, plasma, cell culture supernates                                                                   |
| <b>Detection Range</b>      | 1.56 ng/mL-100 ng/mL                                                                                     |
| <b>Sensitivity</b>          | 0.39 ng/mL                                                                                               |
| <b>Assay Time</b>           | 1-5h                                                                                                     |
| <b>Sample Volume</b>        | 50-100ul                                                                                                 |
| <b>Detection Wavelength</b> | 450 nm                                                                                                   |
| <b>Lead Time</b>            | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| <b>Research Area</b>        | Signal Transduction                                                                                      |
| <b>Gene Names</b>           | HTRA1                                                                                                    |
| <b>Tag Info</b>             | quantitative                                                                                             |
| <b>Protein Description</b>  | Sandwich                                                                                                 |

**Description**

This Human HTRA1 ELISA Kit was designed for the quantitative measurement of Human HTRA1 protein in serum, plasma, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/mL .

**Target Details**

This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7.

**Product Precision**

Intra-assay Precision (Precision within an assay): CV%<8%  
 Three samples of known concentration were tested twenty times on one plate to assess.  
 Inter-assay Precision (Precision between assays): CV%<10%



Three samples of known concentration were tested in twenty assays to assess.

## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human HTRA1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

|     |           |            |
|-----|-----------|------------|
| ?   | Sample    | Serum(n=4) |
|     | Average % | 92         |
| 1:1 | Range %   | 84-96      |
|     | Average % | 96         |
| 1:2 | Range %   | 92-103     |
|     | Average % | 98         |
| 1:4 | Range %   | 94-102     |
|     | Average % | 86         |
| 1:8 | Range %   | 82-93      |

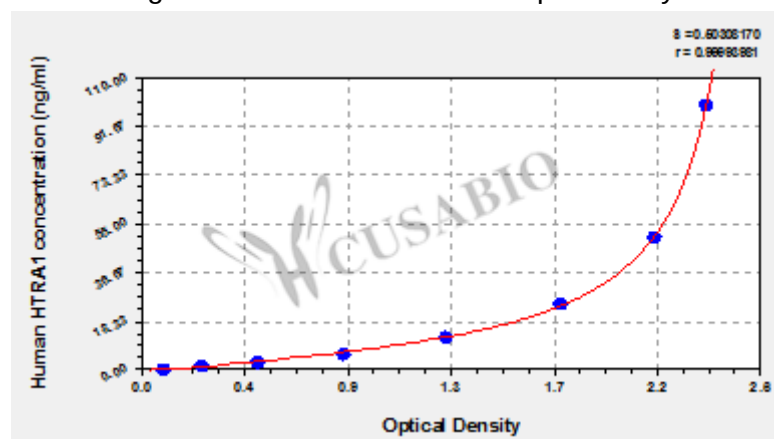
## Recovery

The recovery of human HTRA1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type       | Average % Recovery | Range  |
|-------------------|--------------------|--------|
| Serum (n=5)       | 99                 | 84-105 |
| EDTA plasma (n=4) | 98                 | 92-104 |

## Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



| ng/ml | OD1   | OD2   | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 100   | 2.357 | 2.405 | 2.381   | 2.282     |
| 50    | 2.112 | 2.212 | 2.162   | 2.063     |
| 25    | 1.842 | 1.700 | 1.771   | 1.672     |
| 12.5  | 1.275 | 1.295 | 1.285   | 1.186     |
| 6.25  | 0.823 | 0.888 | 0.856   | 0.757     |
| 3.12  | 0.481 | 0.503 | 0.492   | 0.393     |
| 1.56  | 0.258 | 0.263 | 0.261   | 0.162     |
| 0     | 0.103 | 0.095 | 0.099   | ?         |

## Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL010901HU.pdf","filename":"MSDS"}}}