



# Human Prostasin(PRSS8) ELISA kit

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>         | CSB-EL018825HU                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Abbreviation</b>         | PRSS8                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Target Name</b>          | protease, serine, 8                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Uniprot No.</b>          | Q16651                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Alias</b>                | CAP1, PROSTASIN, channel-activating protease 1 prostasin                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Product Type</b>         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen Species</b>    | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sample Types</b>         | serum, plasma, urine, saliva, tissue homogenates                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Detection Range</b>      | 2.35 ng/mL-150 ng/mL                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sensitivity</b>          | 0.58 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>        | Cell Biology                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Names</b>           | PRSS8                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tag Info</b>             | quantitative                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Description</b>  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>          | <p>This Human PRSS8 ELISA Kit was designed for the quantitative measurement of Human PRSS8 protein in serum, plasma, urine, saliva, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 2.35 ng/mL-150 ng/mL and the sensitivity is 0.58 ng/mL .</p>                                                                                                                                                          |
| <b>Target Details</b>       | <p>This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is highly expressed in prostate epithelia and is one of several proteolytic enzymes found in seminal fluid. The proprotein is cleaved to produce a light chain and a heavy chain which are associated by a disulfide bond. It is active on peptide linkages involving the carboxyl group of lysine or arginine.</p> |
| <b>Product Precision</b>    | <p>Intra-assay Precision (Precision within an assay): CV%&lt;8%<br/> Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%<br/> Three samples of known concentration were tested in twenty assays to assess.</p>                                                                                                             |



## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human PRSS8 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) |
| 1:200  | Average % | 84         |
|        | Range %   | 80-92      |
| 1:400  | Average % | 95         |
|        | Range %   | 91-105     |
| 1:800  | Average % | 97         |
|        | Range %   | 92-108     |
| 1:1600 | Average % | 93         |
|        | Range %   | 86-100     |

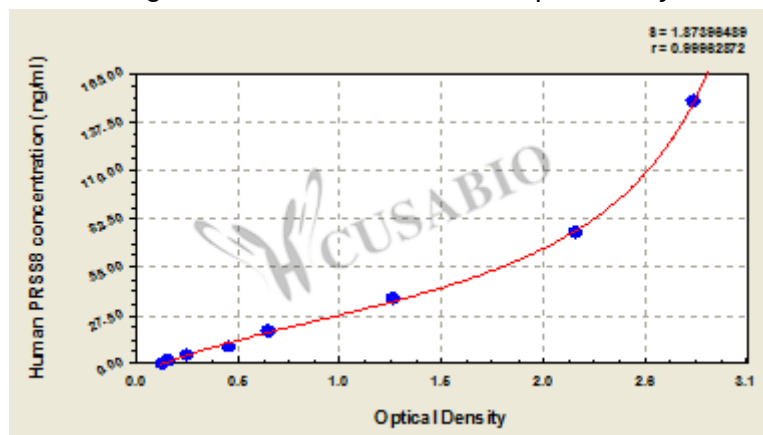
## Recovery

The recovery of human PRSS8 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)       | 95                 | 89-98  |
| EDTA plasma (n=4) | 97                 | 85-100 |

## 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 |
|-------|-------|-------|---------|-----------|
| 150   | 2.800 | 2.790 | 2.795   | 2.650     |
| 75    | 2.309 | 2.298 | 2.304   | 2.159     |
| 37.5  | 1.281 | 1.300 | 1.291   | 1.146     |
| 18.75 | 0.650 | 0.698 | 0.674   | 0.529     |
| 9.4   | 0.454 | 0.493 | 0.474   | 0.329     |
| 4.7   | 0.251 | 0.270 | 0.261   | 0.116     |
| 2.35  | 0.174 | 0.168 | 0.171   | 0.026     |
| 0     | 0.144 | 0.146 | 0.145   | ?         |

## Msds

```
{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL018825HU.pdf","filename":"MSDS"}}
```