



# Rat angiotensin 1-7 (Ang1-7) ELISA kit

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|--------|------------|-----|-----------|----|---------|--------|-----|-----------|----|---------|--------|-----|-----------|-----|---------|--------|
| <b>Product Code</b>         | CSB-E14241r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Abbreviation</b>         | Ang1-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Target Name</b>          | Angiotensin 1-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Product Type</b>         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Immunogen Species</b>    | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Sample Types</b>         | serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Detection Range</b>      | 18.75 pg/mL-1200 pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Sensitivity</b>          | 4.68 pg/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>        | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Tag Info</b>             | quantitative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Protein Description</b>  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Description</b>          | <p>This Rat Ang1-7 ELISA Kit was designed for the quantitative measurement of Rat Ang1-7 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 18.75 pg/mL-1200 pg/mL and the sensitivity is 4.68 pg/mL.</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>                                                                                                                                                                                                                                                                                                                         |            |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| <b>Linearity</b>            | <p>To assess the linearity of the assay, samples were spiked with high concentrations of rat Ang1-7 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.</p> <table> <tr> <td>?</td><td>Sample</td><td>Serum(n=4)</td></tr> <tr> <td rowspan="2">1:1</td><td>Average %</td><td>94</td></tr> <tr> <td>Range %</td><td>80-105</td></tr> <tr> <td rowspan="2">1:2</td><td>Average %</td><td>96</td></tr> <tr> <td>Range %</td><td>85-104</td></tr> <tr> <td rowspan="2">1:4</td><td>Average %</td><td>102</td></tr> <tr> <td>Range %</td><td>92-114</td></tr> </table> |            | ? | Sample | Serum(n=4) | 1:1 | Average % | 94 | Range % | 80-105 | 1:2 | Average % | 96 | Range % | 85-104 | 1:4 | Average % | 102 | Range % | 92-114 |
| ?                           | Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Serum(n=4) |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| 1:1                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 94         |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80-105     |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| 1:2                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 96         |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85-104     |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
| 1:4                         | Average %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 102        |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |
|                             | Range %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92-114     |   |        |            |     |           |    |         |        |     |           |    |         |        |     |           |     |         |        |



|     |           |        |
|-----|-----------|--------|
| 1:8 | Average % | 99     |
|     | Range %   | 80-110 |

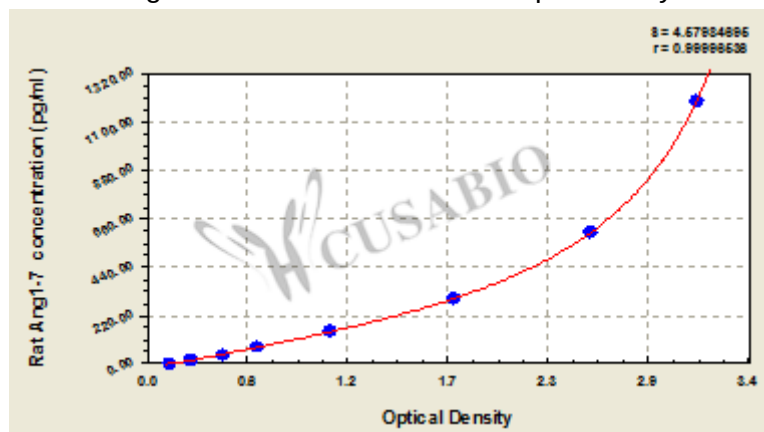
## Recovery

The recovery of rat Ang1-7 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)       | 96                 | 83-112 |
| EDTA plasma (n=4) | 95                 | 90-102 |

## Typical

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



| pg/ml | OD1   | OD2   | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 1200  | 3.121 | 3.129 | 3.125   | 2.986     |
| 600   | 2.532 | 2.522 | 2.527   | 2.388     |
| 300   | 1.739 | 1.765 | 1.752   | 1.613     |
| 150   | 1.050 | 1.041 | 1.046   | 0.907     |
| 75    | 0.623 | 0.642 | 0.633   | 0.494     |
| 37.5  | 0.435 | 0.447 | 0.441   | 0.302     |
| 18.75 | 0.265 | 0.254 | 0.260   | 0.121     |
| 0     | 0.135 | 0.143 | 0.139   | ?         |

## Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E14241r.pdf","filename":"MSDS"}}}