



# Human angiotensinogen (aGT) ELISA Kit

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| <b>Product Code</b>         | CSB-E08564h  |
| <b>Abbreviation</b>         | AGT  |
| <b>Target Name</b>          | angiotensinogen (serpin peptidase inhibitor, clade A, member 8)  |
| <b>Uniprot No.</b>          | P01019   |
| <b>Alias</b>                | ANHU, FLJ92595, FLJ97926, SERPINA8, alpha-1 antiproteinase, antitrypsin angiotensin I angiotensin II angiotensinogen pre-angiotensinogen serine (or cysteine) proteinase inhibitor |
| <b>Product Type</b>         | ELISA Kit  |
| <b>Immunogen Species</b>    | Homo sapiens (Human)   |
| <b>Sample Types</b>         | serum, plasma, urine, cell culture supernates  |
| <b>Detection Range</b>      | 78 pg/mL-5000 pg/mL  |
| <b>Sensitivity</b>          | 19.5 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>Gene Names</b>           | AGT  |
| <b>Tag Info</b>             | quantitative   |
| <b>Protein Description</b>  | Sandwich   |

|                    |  |
|--------------------|--|
| <b>Description</b> | This Human AGT ELISA Kit was designed for the quantitative measurement of Human AGT protein in serum, plasma, urine, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 pg/mL . |
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| <b>Target Details</b> | This protein, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in this gene have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease. |
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## 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 aGT 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 % | 90         |
|        | Range %   | 85-100     |
| 1:400  | Average % | 97         |
|        | Range %   | 91-105     |
| 1:800  | Average % | 98         |
|        | Range %   | 93-110     |
| 1:1600 | Average % | 93         |
|        | Range %   | 85-105     |

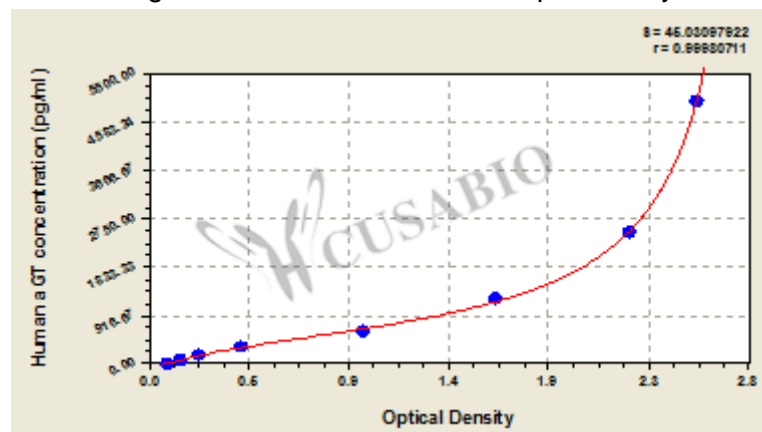
## Recovery

The recovery of human aGT 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)       | 90                 | 85-100 |
| EDTA plasma (n=4) | 97                 | 90-105 |

## 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 |
|-------|-------|-------|---------|-----------|
| 5000  | 2.533 | 2.589 | 2.561   | 2.467     |
| 2500  | 2.234 | 2.268 | 2.251   | 2.157     |
| 1250  | 1.618 | 1.628 | 1.623   | 1.529     |
| 625   | 1.005 | 1.014 | 1.010   | 0.916     |
| 312   | 0.423 | 0.453 | 0.438   | 0.344     |
| 156   | 0.236 | 0.243 | 0.240   | 0.146     |
| 78    | 0.149 | 0.156 | 0.153   | 0.059     |
| 0     | 0.091 | 0.096 | 0.094   | ?         |

**Msd**

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