# Human α-Glucosidase ELISA Kit

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|---|---|
| **Product Code** | CSB-E09459h |
| **Abbreviation** | MGAM |
| **Target Name** | maltase-glucoamylase (alpha-glucosidase) |
| **Uniprot No.** | O43451 |
| **Alias** | MG, MGA, alpha-glucosidase\|brush border hydrolase\|maltase-glucoamylase |
| **Product Type** | ELISA Kit |
| **Immunogen Species** | Homo sapiens (Human) |
| **Sample Types** | serum, plasma, tissue homogenates, urine |
| **Detection Range** | 3.12 μU/mL-200 μU/mL |
| **Sensitivity** | 0.78 μU/mL |
| **Assay Time** | 1-5h |
| **Sample Volume** | 50-100ul |
| **Detection Wavelength** | 450 nm |
| **Lead Time** | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| **Research Area** | Others |
| **Gene Names** | MGAM |
| **Tag Info** | quantitative |
| **Protein Description** | Sandwich |
| **Description** | This Human MGAM ELISA Kit was designed for the quantitative measurement of Human MGAM protein in serum, plasma, tissue homogenates, urine. It is a Sandwich ELISA kit, its detection range is 3.12 μU/mL-200 μU/mL and the sensitivity is 0.78 μU/mL. |
| **Target Details** | This gene encodes maltase-glucoamylase, which is a brush border membrane enzyme that plays a role in the final steps of digestion of starch. The protein has two catalytic sites identical to those of sucrase-isomaltase, but the proteins are only 59% homologous. Both are members of glycosyl hydrolase family 31, which has a variety of substrate specificities. |
| **Product Precision** | **Intra-assay Precision (Precision within an assay): CV%<8%**<br>Three samples of known concentration were tested twenty times on one plate to assess.<br>**Inter-assay Precision (Precision between assays): CV%<10%**<br>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 α-Glucosidase 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) |
|---|---|---|
| 1:20 | Average % | 95 |
| | Range % | 85-103 |
| 1:40 | Average % | 90 |
| | Range % | 85-99 |
| 1:80 | Average % | 95 |
| | Range % | 91-102 |
| 1:100 | Average % | 89 |
| | Range % | 81-97 |

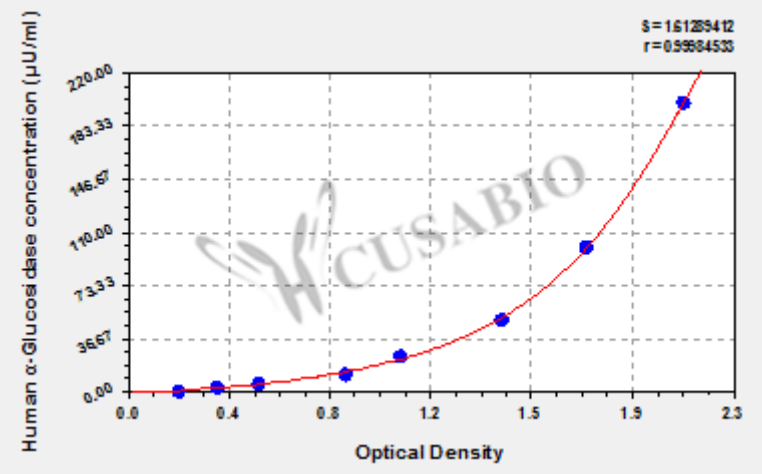
## Recovery

The recovery of human α-Glucosidase 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 | 85-101 |
| EDTA plasma (n=4) | 93 | 87-99 |

## Typical

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




| μU/ml | OD1 | OD2 | Average | Corrected |
|---|---|---|---|---|
| 200 | 2.127 | 2.112 | 2.120 | 1.913 |
| 100 | 1.746 | 1.757 | 1.752 | 1.545 |
| 50 | 1.442 | 1.417 | 1.430 | 1.223 |
| 25 | 1.069 | 1.028 | 1.049 | 0.842 |
| 12.5 | 0.835 | 0.843 | 0.839 | 0.632 |
| 6.25 | 0.502 | 0.521 | 0.512 | 0.305 |
| 3.12 | 0.347 | 0.354 | 0.351 | 0.144 |
| 0 | 0.205 | 0.209 | 0.207 | ? |

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| **Msds** | {"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E09459h.pdf","filename":"MSDS"}} |