



# Pig insulin-like growth factors 2,IGF-2 ELISA Kit

|                                     |   |
|-------------------------------------|---|
| <b>Product Code</b>                 | CSB-E06830p   |
| <b>Protein Biological Process 2</b> | glyconeogenesis and glycometabolism   |
| <b>Abbreviation</b>                 | IGF2  |
| <b>Protein Biological Process 1</b> | Biosynthesis/Metabolism   |
| <b>Target Name</b>                  | insulin-like growth factor 2 (somatomedin A)  |
| <b>Uniprot No.</b>                  | P23695  |
| <b>Alias</b>                        | C11orf43, FLJ22066, FLJ44734, INSIGF, pp9974, OTTHUMP00000011018 OTTHUMP00000011157 insulin-like growth factor 2 insulin-like growth factor II insulin-like growth factor type 2 putative insulin-like  |
| <b>Product Type</b>                 | ELISA Kit   |
| <b>Immunogen Species</b>            | Sus scrofa (Pig)  |
| <b>Protein Biological Process 3</b> | Carbohydrate metabolism   |
| <b>Sample Types</b>                 | serum, plasma   |
| <b>Detection Range</b>              | 0.625 ng/mL-40 ng/mL  |
| <b>Sensitivity</b>                  | 0.156 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>                | Metabolism  |
| <b>Gene Names</b>                   | IGF2  |
| <b>Tag Info</b>                     | quantitative  |
| <b>Protein Description</b>          | Sandwich  |
| <b>Description</b>                  | This Pig IGF2 ELISA Kit was designed for the quantitative measurement of Pig IGF2 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.   |
| <b>Target Details</b>               | This gene encodes a member of the insulin family of polypeptide growth factors that is involved in development and growth. It is an imprinted gene and is expressed only from the paternally inherited allele. It is a candidate gene for eating disorders. There is a read-through, INS-IGF2, which aligns to this gene at |



the 3' region and to the upstream INS gene at the 5' region. Alternatively spliced transcript variants, encoding either the same or different isoform, have been found for this gene.

## 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 pig IGF-2 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 % | 89         |
|       | Range %   | 83-97      |
| 1:40  | Average % | 94         |
|       | Range %   | 90-103     |
| 1:80  | Average % | 92         |
|       | Range %   | 86-100     |
| 1:160 | Average % | 93         |
|       | Range %   | 87-101     |

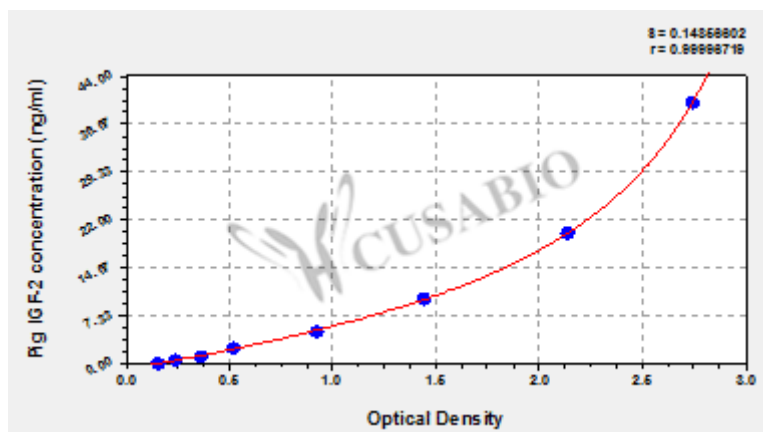
## Recovery

The recovery of pig IGF-2 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)       | 97                 | 91-105 |
| EDTA plasma (n=4) | 95                 | 89-105 |

## 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 |
|-------|-------|-------|---------|-----------|
| 40    | 2.754 | 2.714 | 2.734   | 2.565     |
| 20    | 2.144 | 2.126 | 2.135   | 1.966     |
| 10    | 1.439 | 1.457 | 1.448   | 1.279     |
| 5     | 0.925 | 0.932 | 0.929   | 0.760     |
| 2.5   | 0.525 | 0.533 | 0.529   | 0.360     |
| 1.25  | 0.381 | 0.364 | 0.373   | 0.204     |
| 0.625 | 0.255 | 0.249 | 0.252   | 0.083     |
| 0     | 0.170 | 0.168 | 0.169   | ?         |

## Msds

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{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E06830p.pdf",
    "filename": "MSDS"
  }
}
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