



# Mouse Interleukin 1 receptor antagonist, IL-1ra

## ELISA kit

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>         | CSB-E10395m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Abbreviation</b>         | IL1RN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Target Name</b>          | interleukin 1 receptor antagonist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Uniprot No.</b>          | P25085                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Alias</b>                | DIRA, ICIL-1RA, IL-1ra3, IL1F3, IL1RA, IRAP, MGC10430, MVCD4, IL1RN (IL1F3) OTTHUMP00000203730 intracellular IL-1 receptor antagonist type II intracellular interleukin-1 receptor antagonist (icIL-1r                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Product Type</b>         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen Species</b>    | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sample Types</b>         | serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Detection Range</b>      | 62.5 pg/mL-4000 pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sensitivity</b>          | 15.6 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>        | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Names</b>           | Il1rn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tag Info</b>             | quantitative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Description</b>  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>          | This Mouse IL1RN ELISA Kit was designed for the quantitative measurement of Mouse IL1RN protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Details</b>       | This protein is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. |



## 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 mouse IL-1ra 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) |
|-----|-----------|------------|
| 1:1 | Average % | 84         |
|     | Range %   | 81-88      |
| 1:2 | Average % | 92         |
|     | Range %   | 89-96      |
| 1:4 | Average % | 102        |
|     | Range %   | 98-105     |
| 1:8 | Average % | 99         |
|     | Range %   | 95-104     |

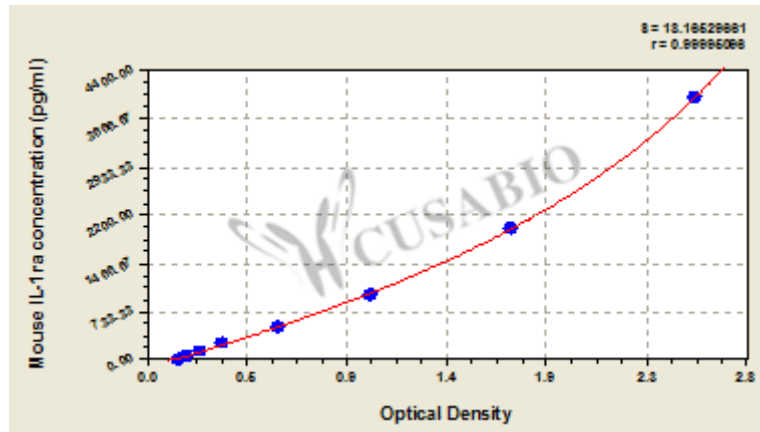
## Recovery

The recovery of mouse IL-1ra 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)       | 87                 | 83-90  |
| EDTA plasma (n=4) | 100                | 95-105 |

## 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 |
|-------|-------|-------|---------|-----------|
| 4000  | 2.547 | 2.601 | 2.574   | 2.413     |
| 2000  | 1.721 | 1.709 | 1.715   | 1.554     |
| 1000  | 1.014 | 1.102 | 1.058   | 0.897     |
| 500   | 0.616 | 0.628 | 0.622   | 0.461     |
| 250   | 0.360 | 0.371 | 0.366   | 0.205     |
| 125   | 0.263 | 0.260 | 0.262   | 0.101     |
| 62.5  | 0.201 | 0.199 | 0.200   | 0.039     |
| 0     | 0.162 | 0.160 | 0.161   | ?         |

## Msds

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{
  "0": {
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    "filename": "MSDS"
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