



# Bovine Ubiquitin-like protein ISG15(ISG15) ELISA kit

|                                     |                                                                                                                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-EL011843BO                                                                                                                                                                                                                                      |
| <b>Abbreviation</b>                 | ISG15                                                                                                                                                                                                                                               |
| <b>Protein Biological Process 1</b> | Immunity                                                                                                                                                                                                                                            |
| <b>Target Name</b>                  | ISG15 ubiquitin-like modifier                                                                                                                                                                                                                       |
| <b>Uniprot No.</b>                  | O02741                                                                                                                                                                                                                                              |
| <b>Alias</b>                        | G1P2, IFI15, UCRP, interferon, alpha-inducible protein (clone IFI-15K) interferon-induced 17-kDa/15-kDa protein interferon-stimulated protein, 15 kDa ubiquitin cross-reactive protein                                                              |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                                                                                                                           |
| <b>Immunogen Species</b>            | Bos taurus (Bovine)                                                                                                                                                                                                                                 |
| <b>Protein Biological Process 3</b> | Antiviral defense                                                                                                                                                                                                                                   |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates                                                                                                                                                                                                                   |
| <b>Detection Range</b>              | 0.312 ng/mL-20 ng/mL                                                                                                                                                                                                                                |
| <b>Sensitivity</b>                  | 0.078 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>                | Immunology                                                                                                                                                                                                                                          |
| <b>Gene Names</b>                   | ISG15                                                                                                                                                                                                                                               |
| <b>Tag Info</b>                     | quantitative                                                                                                                                                                                                                                        |
| <b>Protein Description</b>          | Sandwich                                                                                                                                                                                                                                            |
| <b>Description</b>                  | This Bovine ISG15 ELISA Kit was designed for the quantitative measurement of Bovine ISG15 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL. |
| <b>Product Precision</b>            | <b>Intra-assay Precision (Precision within an assay): CV%&lt;8%</b><br>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 bovine ISG15 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) |
|     | Average % | 95         |
| 1:1 | Range %   | 85-102     |
|     | Average % | 92         |
| 1:2 | Range %   | 83-99      |
|     | Average % | 90         |
| 1:4 | Range %   | 85-97      |
|     | Average % | 95         |
| 1:8 | Range %   | 83-103     |

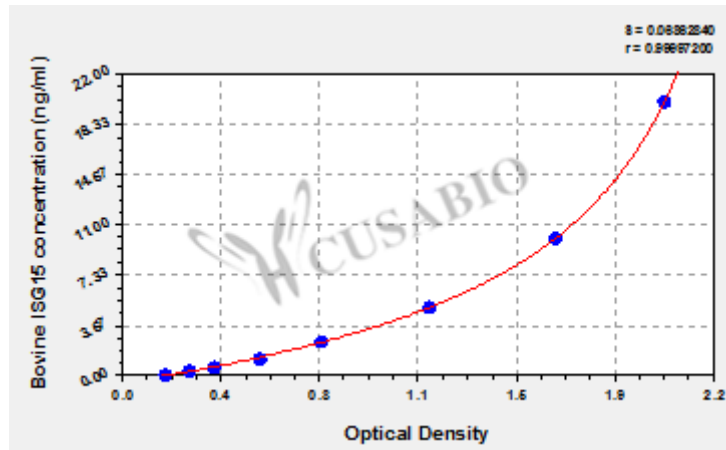
**Recovery**

The recovery of bovine ISG15 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                 | 90-100 |
| EDTA plasma (n=4) | 93                 | 86-105 |

**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 |
|-------|-------|-------|---------|-----------|
| 20    | 2.105 | 1.995 | 2.050   | 1.871     |
| 10    | 1.654 | 1.627 | 1.641   | 1.462     |
| 5     | 1.153 | 1.185 | 1.169   | 0.990     |
| 2.5   | 0.772 | 0.757 | 0.765   | 0.586     |
| 1.25  | 0.537 | 0.534 | 0.536   | 0.357     |
| 0.625 | 0.364 | 0.355 | 0.360   | 0.181     |
| 0.312 | 0.262 | 0.275 | 0.269   | 0.090     |
| 0     | 0.177 | 0.181 | 0.179   | ?         |

## Msds

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