

## Bovine Follicle-stimulating hormone ELISA Kit | FSH elisa kit

Bovine Follicle-stimulating hormone (FSH) ELISA Kit

CATALOG #  
**AAA55896**

REACTIVITY  
**Bovine**

### PRODUCT SYNONYMS

Follicle-stimulating hormone; Bovine Follicle-stimulating hormone (FSH) ELISA Kit; Follicle-stimulating hormone beta subunit[follitropin; beta chain; FSH elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Bovine                                                                                                                                                                                                |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of Bovine FSH. No significant cross-reactivity or interference between Bovine FSH and analogues was observed.                 |
| Sequence Length         | 669                                                                                                                                                                                                   |
| Assay Type              | Quantitative Competitive                                                                                                                                                                              |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                                                             |
| Detection Range         | 1.5 mIU/mL - 300 mIU/mL                                                                                                                                                                               |
| Sensitivity             | 1.5 mIU/mL (mean of 6 independent assays)                                                                                                                                                             |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Intra-Assay: CV<8%                      |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100. Inter-Assay: CV<12% |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                |

### ADDITIONAL INFORMATION

#### Related Product Information for FSH elisa kit

Background: Follicle stimulating hormone (FSH) is a hormone synthesised and secreted by gonadotropes in the anterior pituitary gland. In the ovary FSH stimulates the growth of immature Graafian follicles to maturation. FSH is a glycoprotein secreted by the basophil cells of the anterior pituitary. Gonadotropin-releasing hormone (GnRH), produced in the hypothalamus, controls the release of FSH from the anterior pituitary. Like other glycoproteins, such as LH, TSH, and HCG, FSH consists of subunits designated as alpha and beta. Hormones of this type have alpha subunits that are very similar in structure; therefore the biological and immunological properties of each hormone are dependent on the unique beta subunit. In the female, FSH stimulates the growth and maturation of ovarian follicles by acting directly on the receptors located on the granulosa cells; follicular steroidogenesis is promoted and LH production is stimulated.

Principle of the Assay: This assay employs the competitive enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with goat-anti-rabbit antibody. Standards or samples are added to the appropriate microtiter plate wells with an antibody specific for FSH and Horseradish Peroxidase (HRP) conjugated FSH. The competitive inhibition reaction is launched between with HRP labeled FSH and unlabeled FSH with the antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of FSH in the sample. The color development is stopped and the intensity of the color is measured.

Intended Uses: For the quantitative detection of Bovine Follicle stimulating hormone (FSH) concentration in serum, plasma and other biological fluids.

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 41386766                              |
| NCBI GeneID                      | 281172                                |
| NCBI Accession #                 | NP_776486.1                           |
| NCBI GenBank Nucleotide #        | NM_174061.1                           |
| UniProt Accession #              | P35376                                |
| Molecular Weight                 | 78,085 Da                             |
| NCBI Official Full Name          | follicle-stimulating hormone receptor |
| NCBI Official Synonym Full Names | follicle stimulating hormone receptor |
| NCBI Official Symbol             | FSHR                                  |
| NCBI Protein Information         | follicle-stimulating hormone receptor |
| UniProt Protein Name             | Follicle-stimulating hormone receptor |
| UniProt Gene Name                | <b>FSHR</b>                           |
| UniProt Synonym Gene Names       | FSH-R                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/fsh-bovine-ovine-elisa-kits/follicle-stimulating-hormone/55896>