

# Recombinant Human FSHB (a. a. 92-111)

Human, Antigen (FSHB)

Cat. No: DAG373

Lot.No: (See product label)

## PRODUCT INFORMATION

**Product Overview:** Recombinant Human FSH-b is a glycoprotein having a total molecular weight of 30 kDa, was expressed in CHO cells. FSH is a heterodimeric hormone consisting of 92 amino acids alpha chain and 111 amino acids beta chain.

**Antigen Description:** Follicle-stimulating hormone (FSH) is a hormone found in humans and other animals. It is synthesized and secreted by gonadotrophs of the anterior pituitary gland. FSH regulates the development, growth, pubertal maturation, and reproductive processes of the body. FSH and Luteinizing hormone (LH) act synergistically in reproduction.

**Form:** Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration  $\geq 100$ ug/ml. Further dilutions can be made in other aqueous buffers.

**Source:** CHO cells

**Purification:**  $\geq 98\%$  pure (RP-HPLC and SDS-PAGE). Purified by chromatographic techniques Product is sterile filtered.

**Inactivation:** Not applicable

**Applications:** Specific methodologies have not been tested using this product.

## PACKAGING

**Concentration:** Total protein: 1mg/ml (prior to lyophilization). Activity: lot specific IU/mg (IRP reference prep 70/45)

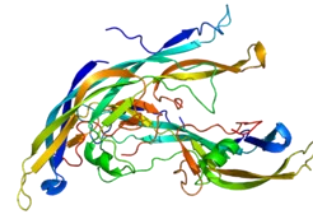
**Buffer:** Lyophilized from Sodium phosphate buffer containing sucrose

**Preservative:** None

**Storage:** The lyophilized product, though stable for 3 weeks at room temperature, is best stored at  $-20^{\circ}\text{C}$ . After reconstitution, short term (up to 1 week) store at  $2-8^{\circ}\text{C}$ . Long term, add 0.1% HSA or BSA, aliquot and store at  $-20^{\circ}\text{C}$ . Avoid multiple freeze/thaw cycles.

## REFERENCES

1. Follicle-stimulating hormone increases bone mass in female mice. Allan CM, et al. Proc Natl Acad Sci USA, 2010 Dec 28.
2. FSH isoform pattern in classic galactosemia. Gubbels CS, et al. J Inher Metab Dis, 2011 Apr.
3. A large-scale candidate gene association study of age at menarche and age at natural menopause. He C, et al. Hum Genet, 2010 Nov.



PDB rendering based on 1fl7

## GENE INFORMATION

**Gene Name:** [FSHB follicle stimulating hormone, beta polypeptide \[ Homo sapiens \]](#)

**Official Symbol:** FSHB

**Synonyms:** FSHB; follicle stimulating hormone, beta polypeptide; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo; follitropin subunit beta; FSH-B; FSH-beta; OTTHUMP00000232881; OTTHUMP00000232882; follitropin beta chain; follitropin, beta chain; follicle-stimulating hormone beta subunit; Follicle Stimulating Hormone; Follicle stimulating hormone beta polypeptide; Follicle stimulating hormone beta subunit ; Follitropin beta chain; Follitropin subunit beta; FSHbeta

**GeneID:** [2488](#)

**mRNA Refseq:** [NM\\_000510](#)

**Protein Refseq:** [NP\\_000501](#)

**MIM:** [136530](#)

**UniProt ID:** P01225

**Chromosome Location:** 11p13

**Pathway:** Biosynthesis of amine and peptide hormones; G alpha (s) signalling events; GPCR downstream signaling; Glycoprotein hormones; GnRH signaling pathway; Hormone ligand-binding receptors; Metabolism of hormones; Neuroactive ligand-receptor interaction; Peptide hormone biosynthesis; Signaling by GPCR

**Function:** follicle-stimulating hormone activity; hormone activity; protein binding; protein heterodimerization activity

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