

Active Recombinant Human FSH α/β protein

Cat. No. FSH-262H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FSH α/β , FSH α (Ala25-Ser116)) and FSH β (Cys21-Glu129), was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	25-116;21-129 a.a.
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 is a glycoprotein. Each monomeric unit is a protein molecule with a sugar attached to it; two of these make the full, functional protein. The protein dimer contains 2 polypeptide units, labeled alpha and beta subunits. The alpha subunits contain 92 amino acids. The beta subunits vary. FSH has a beta subunit of 118 amino acids (FSHβ), which confers its specific biologic action and is responsible for interaction with the FSH receptor. The sugar part of the hormone is composed of fucose, galactose, mannose, galactosamine, glucosamine, and sialic acid, the latter being critical for its biologic half-life. The half-life of FSH is 3–4 hours. FSH regulates the development, growth, pubertal maturation, and reproductive processes of the human body.
Form	Prepared in PBS (1 mg/mL), Filtered (0.22 μ m) & lyophilized.

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Bio-activity	ED50 = 0.1 to 0.4 ng/ml in human FSH receptor transfected HEK 293 cells.
Molecular Mass	Predicted: 10 kDa (FSH α) & 12 kDa (FSH β), ~25.0 KDa by SDS-PAGE.
Endotoxin	<1.0 EU per 1 μ g of protein (by Limulus Amoebocyte Lysate Test)
Purity	0.95
Applications	WB, ELISA, Cell culture
Storage	Store lyophilized and reconstituted proteins at -20 centigrade for Long Term and at 4 centigrade for < 2 weeks. Avoid repeated freezing/thawing cycles.
Reconstitution	Reconstitute at 100 ug/ml in sterile water/PBS containing at least 0.1% human or bovine serum albumin

GENE INFORMATION

Gene Name	FSHB follicle stimulating hormone, beta polypeptide [Homo sapiens]
Official Symbol	FSHB
Synonyms	FSHB; follicle stimulating hormone, beta polypeptide; follitropin subunit beta; follicle stimulating hormone beta subunit; follitropin; beta chain; FSH-B; FSH-beta; follitropin beta chain; follitropin, beta chain; follicle-stimulating hormone beta subunit;
Gene ID	2488
mRNA Refseq	NM_000510
Protein Refseq	NP_000501

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MIM	136530
UniProt ID	P01225
Chromosome Location	11p13
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Glycoprotein hormones, organism-specific biosystem; GnRH signaling pathway, organism-specific biosystem; GnRH signaling pathway, conserved biosystem;
Function	follicle-stimulating hormone activity; hormone activity; protein binding; protein heterodimerization activity;

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