

Recombinant Human FSHB

Cat. No. FSHB-208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FSHB was produced in human cell transiently transfected with two expression plasmids encoding the human FSH α (Accession # P01215) (Met1-Ser116) and human FSH β (Accession # P01225) (Met1-Glu129).
Species	Human
Source	Human Cells
ProteinLength	1-116;1-129 a.a.
Description	Human Follicle-stimulating hormone (FSH) is a member of glycoprotein hormones subunit beta family, which also includes LH, chorionic gonadotropin (CG) and thyroid-stimulating hormone (TSH). FSH and its family members are heterodimers consisting of non-covalently linked α - and β -subunits. They share an identical α subunit, and β -subunits vary. FSH has a unique β -subunit (FSH β), which confers its specific biologic activity and is responsible for interaction with the FSH-receptor which belongs to a subfamily of GPCRs called leucine-rich-repeat-containing GPCRs (LGRs). FSH is secreted from the pituitary gland and regulates reproduction in mammals. FSH stimulates sertoli cell proliferation in testes and supports spermatogenesis in males, and induces the maturation of ovarian follicles in females.
Biological Activity	The ED50 of 80~450 pg/ml is measured by cAMP accumulation in human FSH Receptor transfected Chinese Hamster Ovary cells.

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Purity	Greater than 95% as determined by (a) Analysis by RP-HPLC; (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Amino-Acid Sequence	Predicted N terminal amino acids are Ala25 (α subunit), Cys21 (β subunit).
Endotoxin	Less than 0.1ng/g (1 IEU/g) determined by LAL test.
Form	The protein was lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended to reconstitute the lyophilized rHuFSH in sterile 18M Ω -cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rHuFSH should be stored desiccated below -18°C upon receipt. Upon reconstitution rHuFSH should be stored at 4°C, which is stable for 2 weeks. For long-term storage, aliquots of reconstituted samples are stable for 3 months below -80°C. Please avoid freeze-thaw cycles.

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; FSH-B; FSH-beta; OTTHUMP- 00000232881; OTTHUMP00000232882; follitropin beta chain; follitropin, beta chain; follicle-stimulating hormone beta subunit; Follicle-stimulating hormone beta subunit; Follitropin beta chain
Gene ID	2488

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mRNA Refseq	NM_000510
Protein Refseq	NP_000501
MIM	136530
UniProt ID	P01225
Chromosome Location	11p13
Function	follicle-stimulating hormone activity; hormone activity; protein heterodimerization activity

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