

Native Human Follicle Stimulating Hormone therapeutic protein(Urofollitropin)

Cat. No. FSHB-P051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The therapeutic protein is a purified form of follicle-stimulating hormone (FSH) that is manufactured by extraction from human urine and then purified. It consists of two non-covalently linked, non-identical glycoproteins designated as the alpha- and beta-subunits. The alpha- and beta- subunits have 92 and 111 amino acids. The alpha subunit is glycosylated at Asn 51 and Asn 78 while the beta subunit is glycosylated at Asn 7 and Asn 24. It is important in the development of follicles produced by the ovaries. Given by subcutaneous injection, it is used in combination with human chorionic gonadotropin (hCG) to assist in ovulation and fertility. Urofollitropin may also be used to cause the ovary to produce several follicles, which can then be harvested for use in gamete intrafallopian transfer (GIFT) or in vitro fertilization (IVF).

Species

Human

Description

The pituitary glycoprotein hormone family includes follicle-stimulating hormone, luteinizing hormone, chorionic gonadotropin, and thyroid-stimulating hormone. All of these glycoproteins consist of an identical alpha subunit and a hormone-specific beta subunit. This gene encodes the beta subunit of follicle-stimulating hormone. In conjunction with luteinizing hormone, follicle-stimulating hormone induces egg and sperm production. Alternative splicing results in two transcript variants encoding the same protein. The expression product is the active ingredient of Fertinex, Metrodin HP, Gonal-F and Puregon.

CAS number

146479-72-3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	1.0 KDa
AA Sequence	>Alpha chainAPDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS>Beta chainNSCELTNITIAIEKEECRFCISINTTWAGYCYTRDLVYKDPARPKIQKTCTFKELVYETVRVPGCAHHADSLYTPVATQCHCGKCDSDSTDCTVRGLGPSYCSFGEMKE
Endotoxin	< 1.0 eu per µg of the
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing 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; 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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