

Recombinant Human PLOD1 therapeutic protein(Lutropin alfa)

Cat. No. LH-P015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The therapeutic protein is a recombinant human luteinizing hormone produced in yeast with 2 subunits, alpha = 92 residues, beta = 121 residues. It is a heterodimeric glycoprotein. Each monomeric unit is a glycoprotein molecule. In females, an acute rise of LH ("LH surge") triggers ovulation and the development of the corpus luteum. In males, it stimulates Leydig cell production of testosterone. It was the first and only recombinant human form of luteinizing hormone (LH) developed for use in the stimulation of follicular development.

Species

Human

Source

Yeast

Description

This gene is a member of the LHB family and encodes the beta subunit of luteinizing hormone (LH). LHB is heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. LHB is expressed in the pituitary gland and promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids. The genes for the beta chains of chorionic gonadotropin and for luteinizing hormone are contiguous on chromosome 19q13.3. Mutations in this gene are associated with hypogonadism which is characterized by infertility and pseudohermaphroditism. The expression product is the active ingredient of Luveris.

Molecular Mass

30kDa

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AA Sequence	>Alpha ChainAPDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS>Beta Chain (LH)SREPLRPWCHPINAILAVEKEGCPVCITVNTTICAGYCPTMMRVLQAVLPPLPQVVCTYRDVRFESIRLPGCPRGVDPVVSFPVALSCRCGPCRRSTSDCGGPKDHPLTCDHPQLSGLLFL
Endotoxin	< 1.0 EU per µg of the protein
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.
Alias	LH; LH1; LLH; EDS6; PLOD; Lutropin alfa; Lutropin alpha; Lutropina alfa

GENE INFORMATION

Gene Name	PLOD1 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Homo sapiens]
Official Symbol	PLOD1
Synonyms	LH; LH1; LLH; EDS6; PLOD
Gene ID	5351
mRNA Refseq	NM_000302
Protein Refseq	NP_000293
MIM	153454

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UniProt ID	Q02809
Chromosome Location	1p36.22
Pathway	Extracellular matrix organization, organism-specific biosystem; Collagen formation, organism-specific biosystem; Collagen biosynthesis and modifying enzymes, organism-specific biosystem

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