Recombinant Human FSH/LH therapeutic protein(Menotropins)

Cat. No. FSH&LH-P010H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The protein contains follicle stimulating hormone (FSH) and luteinizing hormone (LH) purified from the urine of postmenopausal women. It is used as a fertility medication that is injected either subcutaneously or intramuscularly. It is composed of LH with 2 subunits, alpha = 92 residues, beta = 121 residues and?FSH?with 2 subunits, alpha = 92 residues, beta=111 residues.
Species	Human
Description	This gene is a member of the glycoprotein hormone beta chain family and encodes the beta subunit of luteinizing hormone (LH). Glycoprotein hormones are heterodimers consisting of a common alpha subunit and a unique beta subunit which confers biological specificity. LH 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 Repronex.
Molecular Mass	23.4 Kda
AA Sequence	>AlphaChain (LH)APDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSK KTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYYHKS>BetaChai n (LH)SREPLRPWCHPINAILAVEKEGCPVCITVNTTICAGYCPTMMRVLQAVLPPLP QVVCTYRDVRFESIRLPGCPRGVDPVVSFPVALSCRCGPCRRSTSDCGGPKDHPLT

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	CDHPQLSGLLFL>BetaChain (FSH)NSCELTNITIAIEKEECRFCISINTTWCAGYCYTR DLVYKDPARPKIQKTCTFKELVYETVRVPGCAHHADSLYTYPVATQCHCGKCDSDS TDCTVRGLGPSYCSFGEMKE>AlphaChain (FSH)APDVQDCPECTLQENPFFSQPG APILQCMGCCFSRAYPTPLRSKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVEN HTACHCSTCYYHKS
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. Avoidrepeated freezing and thawing cycles.
Alias	FSH; Menotropins

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