Lutropin Subunit Beta (LHB) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lutropin subunit beta (Lhb), Recombinant Protein
Full Product Name	Recombinant Rat Lutropin subunit beta (Lhb)
Product Gene Name	Lhb recombinant protein
Sequence	SRGPLRPLCR PVNATLAAEN EFCPVCITFT TSICAGYCPS MVRVLPAALP PVPQPVCTYR ELRFASVRLP GCPPGVDPIV SFPVALSCRC GPCRLSSSDC GGPRTQPMTC DLPHLPGLLL F
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	15,177 Da
Sequence Positions	21-141, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P01230
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Lhb recombinant protein	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 an 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.
Other Notes	Small volumes of Lhb recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Lhb purchase	MBS1233368 is a recombinant protein targeting Lhb. Also known as Recombinant Rat Lutropin subunit beta (Lhb). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lhb. It may not necessarily be applicable to this product.

NCBI GI #	77157791
NCBI GeneID	25329
NCBI Accession #	NP_001029147.1
UniProt Primary Accession #	P01230

UniProt Related Accession #	P01230
GenBank Nucleotide #	NM_001033975.1
NCBI Official Full Name	lutropin subunit beta isoform 2
NCBI Official Synonym Full Names	luteinizing hormone beta polypeptide
NCBI Official Symbol	Lhb
UniProt Protein Name	Lutropin subunit beta
UniProt Synonym Protein Names	Luteinizing hormone subunit beta; LH-B; LSH-B; LSH-beta
Protein Family	Lutropin/choriogonadotropin
UniProt Gene Name	Lhb
UniProt Synonym Gene Names	Lutropin beta chain; LH-B; LSH-B; LSH-beta
NCBI Protein Information	lutropin subunit beta
NCBI Summary for Lhb	subunit of luteinizing hormone; involved in spermatogenesis and oogenesis [RGD, Feb 2006]
UniProt Comments for Lhb	Promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids.
Research Articles on Lhb	**1.** Orchestrated Egr1 and Pitx1 activities depending on specific central and peripheral regulatory inputs could be responsible for physiologically variable Lhb gene promoter activation in vivo.
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