

Leutenizing hormone Releasing Hormone Recombinant Protein | LHRH recombinant protein

Recombinant Human Leutenizing hormone Releasing Hormone (Gonadorelin)

CATALOG # AAA38355	HOST E Coli
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PRODUCT SYNONYMS

Leutenizing hormone Releasing Hormone; Recombinant Human Leutenizing hormone Releasing Hormone (Gonadorelin); LHRH Human; Luteinizing Hormone Releasing Hormone Human Recombinant; Progonadoliberin-1; Progonadoliberin I; LHRH; GRH; GNRH; LNRH; LHRH recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	LHRH protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGS QHWSYGLRPG GKRDAENLID SFQEIVKEVG QLAETQRFEC TTHQPRSPRL DLKGALES LI EEETGQKKI
Sequence Length	92
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for LHRH recombinant protein	Description: LHRH Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 92 amino acids (24-92 a.a.) and having a molecular mass of 10.3kDa. LHRH is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Gonadotropin-releasing hormone 1 (GNRH1), also known as Luteinising-hormone releasing hormone (LHRH), is a peptide hormone responsible for the release of FSH and LH from the anterior pituitary. GNRH1 is synthesized and released by the hypothalamus. At the pituitary, GNRH1 stimulates the synthesis and secretion of the gonadotropins follicle-stimulating hormone (FSH) and luteinizing hormone (LH). These processes are controlled by the size and frequency of GNRH1 pulses, as well as by feedback from androgens and estrogens. Low frequency GNRH1 pulses lead to FSH release, whereas high frequency GNRH1 pulses stimulate LH release. There are differences in GNRH1 secretion between males and females. In males, GNRH1 is secreted in pulses at a constant frequency, but in females the frequency of the pulses varies during the menstrual cycle and there is a large surge of GNRH1 just before ovulation. GNRH1 secretion is pulsatile in all vertebrates, and is necessary for correct reproductive function. Thus, a single hormone, GNRH1, controls a complex process of follicular growth, ovulation, and corpus luteum maintenance in the female, and spermatogenesis in the male.
Product Categories/Family for LHRH recombinant protein	Hormones; Hormones; LHRH

NCBI AND UNIPROT INFORMATION

NCBI GI #	133908612
NCBI GeneID	2796

NCBI Accession #	NP_001076580.1
NCBI GenBank Nucleotide #	NM_001083111.1
UniProt Accession #	P01148 ; A0AVP0
Molecular Weight	10,380 Da
NCBI Official Full Name	progonadoliberin-1 isoform 2 preproprotein
NCBI Official Synonym Full Names	gonadotropin-releasing hormone 1 (luteinizing-releasing hormone)
NCBI Official Symbol	GNRH1
NCBI Official Synonym Symbols	GRH; GNRH; HH12; LHRH; LNRH
NCBI Protein Information	progonadoliberin-1; GnRH-associated peptide 1; gonadotropin-releasing hormone 1 (luteinizing-releasing hormone); luliberin I; progonadoliberin I; prolactin release-inhibiting factor
UniProt Protein Name	Progonadoliberin-1
UniProt Gene Name	GNRH1
UniProt Synonym Gene Names	GNRH; GRH; LHRH; GnRH-I; LH-RH I
UniProt Entry Name	GON1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gnrh1-recombinant-protein-e-coli/38355>