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LHRH Protein

Luteinizing Hormone Releasing Hormone Human Recombinant
HRM0067

Product Overview

Name	LHRH Protein
Description	
Luteinizing Hormone Releasing Hormone Human Recombinant	
Accession (Primary)	P01148
Synonyms	
LHRH, GRH, GNRH, LNRH.	
Introduction	
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 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 requency 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
LHRH protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.	
Purity	

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS QHWSYGL RPGGKRDAEN LIDSFQEIVK EVGQLAETQR FECTTHQPRS PLRDLKGALE SLIEEETGQK KI.

Precautions

LHRH Protein is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01148)