9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LHRH Human

Luteinizing Hormone Releasing Hormone Human
HRM0066

Product Overview

Name	LHRH Human
Description	
Luteinizing Hormone Releasing Hormone Human	
Accession (Primary)	P01148
Synonyms	
Progonadoliberin-1, Progonadoliberin I, LHRH, GRH, GNRH, LNRH.	
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 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.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The LHRH was lyophilized from a concentrated (1 mg/ml) solution with no additives.	
Stability	
Lyophilized LHRH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LNRH should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by RP-HPLC.	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Amino acid sequence

Pyr-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH2.

Solubility

It is recommended to reconstitute the lyophilized LHRH in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The LHRH is also soluble in a 1% glacial acetic acid.

Precautions

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

Target Information: (P01148)