

human GHRH

Growth-hormone-releasing hormone (GHRH)

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Product	Cat#	Package size
human GHRH	C6470.0250	250µg
human GHRH	C6470.1000	1mg
human GHRH	C6470.5000	5mg

Product description

Growth-hormone-releasing hormone (GHRH), also known as growth-hormone-releasing factor (GRF or GHRF) or somatotrin, is a 44-amino acid peptide hormone produced in the arcuate nucleus of the hypothalamus. GHRH is released from neurosecretory nerve terminals of these arcuate neurons, and is carried by the hypothalamo-hypophysial portal circulation to the anterior pituitary gland where it stimulates growth hormone (GH) secretion. GHRH also stimulates the production of GH. GHRH is released in a pulsatile manner, stimulating similar pulsatile release of GH. In addition, GHRH also promotes slow-wave sleep directly.

This synthetic Growth Hormone Releasing Hormone is a single, non-glycosylated, polypeptide of 29 amino acids and a molecular mass of 3358.9 Dalton. It corresponds to the amino-terminal segment of the naturally occurring human growth hormone-releasing hormone of 44 amino acids.

Source: Chemically synthesized

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 98.0% as determined by
Analysis by RP-HPLC
Analysis by SDS-PAGE

Amino acid sequence:

Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-NH₂

Biological activity:

GHRH increases plasma growth hormone concentrations by directly stimulating the anterior pituitary gland to release natural human growth hormone.

Formulation

The peptide (1mg/mL) was lyophilized after extensive dialyses against 1.7mg sodium phosphate buffer (0.1mg sodium phosphate monobasic & 1.6mg sodium phosphate dibasic).

Reconstitution: It is recommended to reconstitute the lyophilized GHRH in sterile demineralized water not less than 100µg/mL, which can then be further diluted to other aqueous solutions. The GHRH is also soluble in 1% Acetic acid at a concentration of >1mg/mL to give a clear, colorless solution.

Stability

Lyophilized Growth Hormone Releasing Hormone although stable at room temperature for 3 weeks, should be stored at -20°C. Upon reconstitution GHRF should be stored at +2°C to +8°C for up to 7 days and for future use at -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Usage

Genaxxon's products are for LABORATORY RESEARCH USE ONLY. The product may not be used as drug, agricultural or pesticidal product, food additive or household chemicals.