

Human GHRF / GHRH / Somatoliberin - Purified

Alternate names:	GRF, Growth hormone-releasing factor, Growth hormone-releasing hormone, Sermorelin, Somatocrinin, Somatorelin
Catalog No.:	PA1185XC
Quantity:	5 mg
Concentration:	1.0 mg/ml
Background:	<p>Growth-hormone-releasing hormone (GHRH), also known as growth-hormone-releasing factor (GRF or GHRF) or somatocrinin, is a 44-amino acid peptide hormone produced in the arcuate nucleus of the hypothalamus.</p> <p>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.</p>
Uniprot ID:	P01286
NCBI:	NP_001171660.1
GeneID:	2691
Species:	Human
Source:	Synthetic, E.coli
Format:	<p>State: Lyophilized purified protein (sterile filtered)</p> <p>Purity: >98% Greater than 98.0% as determined by:</p> <p>(a) Analysis by RP-HPLC.</p> <p>(b) Anion-exchange FPLC.</p> <p>(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.</p> <p>Buffer System: 1.7mg sodium phosphate buffer (0.1 mg sodium phosphate monobasic & 1.6mg sodium phosphate dibasic).</p> <p>Reconstitution: Restore in sterile 18Mohm-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.</p>
Description:	<p>Growth Hormone Releasing Hormone Human Synthetic is a single, non-glycosylated, polypeptide chain containing 29 amino acids. Corresponds to the amino-terminal segment of the naturally occurring human growth hormone-releasing hormone consisting of 44 amino acid residues. The GHRH is purified by proprietary chromatographic techniques.</p> <p>AA Sequence:</p> <p>The free base of sermorelin has the empirical formula C₁₄₉H₂₄₆N₄₄O₄₂S. 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</p> <p>The sequence of the first five N-terminal amino acids was determined and was found to be Tyr-Ala-Asp-Ala-Ile.</p>

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

Molecular weight: 3 kDa 3358 Dalton

Storage:

Prior to reconstitution stable at RT for 3 weeks.
 Following reconstitution store the protein undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.
 Avoid repeated freezing and thawing.
 For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
 Shelf life: one year from despatch.

Pictures:

Precursor- Protein structure and amino acid sequence.

