

Active Native Human GHRH

Cat. No. GHRH-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The GHRH is purified by proprietary chromatographic techniques.
Species	Human
Description	Growth Hormone Releasing Hormone Human Synthetic is a single, non-glycosylated, polypeptide chain containing 29 amino acids and having a molecular mass of 3358.9 Dalton. Corresponds to the amino-terminal segment of the naturally occurring human growth hormone-releasing hormone consisting of 44 amino acid residues.
Form	The GHRH peptide (1mg/ml) was lyophilized after extensive dialyses against 1.7 mg sodium phosphate buffer (0.1 mg sodium phosphate monobasic, 1.6 mg sodium phosphate dibasic).
Bio-activity	9.3 IU/mg vial by Centaur CP.
AA Sequence	The free base of sermorelin has the empirical formula C ₁₄₉ H ₂₄₆ N ₄₄ O ₄₂ S. 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-NH ₂ .
Purity	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

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Storage Lyophilized Growth Hormone Releasing Hormone although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GHRF 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.

Reconstitution It is recommended to reconstitute the lyophilized GHRH in sterile 18MΩ-cm H₂O not less than 100 µg/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.

GENE INFORMATION

Gene Name GHRH growth hormone releasing hormone [Homo sapiens]

Official Symbol GHRH

Synonyms GHRH; growth hormone releasing hormone; GHRF; somatoliberin; sermorelin; somatocrinin; somatorelin; growth hormone-releasing factor; growth hormone-releasing hormone; GRF; INN; MGC119781;

Gene ID 2691

mRNA Refseq NM_001184731

Protein Refseq NP_001171660

MIM 139190

UniProt ID P01286

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Chromosome Location	20q11.2
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Glucagon-type ligand receptors, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by GPCR, organism-specific biosystem;
Function	growth hormone-releasing hormone activity; growth hormone-releasing hormone receptor binding;

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