

## Active Native Human GHRH

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

### SPECIFICATION

<b>Product Overview</b>	The GHRH is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Form</b>	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).
<b>Bio-activity</b>	9.3 IU/mg vial by Centaur CP.
<b>AA Sequence</b>	The free base of sermorelin has the empirical formula C <sub>149</sub> H <sub>246</sub> N <sub>44</sub> O <sub>42</sub> 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 <sub>2</sub> .
<b>Purity</b>	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Usage</b>	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 H<sub>2</sub>O 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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<b>Chromosome Location</b>	20q11.2
<b>Pathway</b>	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;
<b>Function</b>	growth hormone-releasing hormone activity; growth hormone-releasing hormone receptor binding;

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