

## 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.                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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;                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA