

Product: Growth Hormone Releasing Hormone (GHRH), human
Catalog #: 12-4213
Amount: 100 µg

DESCRIPTION: Synthetic Human GHRH (HuGHRH) is a single, non-glycosylated, polypeptide chain containing 29 amino acids and having a molecular mass of 3358 Dalton. Corresponds to the amino-terminal segment of the naturally occurring human growth hormone-releasing hormone consisting of 44 amino acid residues. The free base of somatotropin 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-NH₂. The sequence of the first five N-terminal amino acids was determined and was found to be Tyr-Ala-Asp-Ala-Ile

SOURCE: *Synthetic peptide*

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC and Anion-exchange FPLC.
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

ENDOTOXIN: < 0.1 ng/µg (IEU/µg) of HuGHRH

DIMERS & AGGREGATES: < 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm
- Analysis by RP-HPLC, using a standard solution of HuGHRH as a Reference Standard

FORM: Purified, in 0.1 mg sodium phosphate monobasic & 1.6mg sodium phosphate dibasic, containing 0.1 % BSA

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: HuGHRH is fully biologically active, increases plasma growth hormone concentrations by directly stimulating the anterior pituitary gland to release natural human growth hormone.

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