

Growth Hormone Releasing Hormone Human

Item Number	rAP-2525
Synonyms	Somatoliberin, Growth hormone-releasing factor, GRF, Growth hormone-releasing hormone, GHRH, Somatocinin, Somatorelin, Sermorelin, GHRF, MGC119781.
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
Uniprot Accession Number	P01286
Amino Acid 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 .
Source	
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	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). Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GHRH in sterile 18MΩ-cm H ₂ 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,
Biological Activity	GHRH increases plasma growth hormone concentrations by directly stimulating the anterior pituitary gland to release natural human growth hormone.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**