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GHRH Human

Growth Hormone Releasing Hormone Human
HRM0036

Product Overview

Name	GHRH Human

Description

Growth Hormone Releasing Hormone Human

Accession (Primary)	P01286

Synonyms

Somatoliberin, Growth hormone-releasing factor, GRF, Growth hormone-releasing hormone, GHRH, Somatocrinin, Somatorelin, Sermorelin, GHRF, MGC119781.

Introduction

Growth-hormone-releasing hormone (GHRH), also known as growth-hormone-releasing factor (GRF or GHRF) or somatocrinin, is a 44-amino acidpeptide hormoneproduced in the arcuate nucleusof the hypothalamus. GHRH is released from neurosecretory nerve terminals of these arcuate neurons, and is carried by the hypothalamo-hypophysial portal circulation to the anterior pituitary glandwhere it stimulates growth hormone(GH) secretion. GHRH also stimulates the production of GH. GHRH is released in a pulsatile manner, stimulating similar pulsatile release of GH. In addition, GHRH also promotes slow-wave sleepdirectly.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

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).

Stability

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.

Purity

Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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-

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Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-NH 2.

Biological Activity

GHRH increases plasma growth hormone concentrations by directly stimulating the anterior pituitary gland to release natural human growth hormone.

Solubility

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.

Precautions

GHRH Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01286)