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Datasheet for ABIN987903

**Growth Hormone 1 Protein (GH1)**

## Overview

Quantity:	100 µg
Target:	Growth Hormone 1 (GH1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

## Product Details

Sequence:	FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT PSNREETQKK SNLELLRISL LLIQSWLEPV QFLRSVFANS LYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a cell proliferation assay using rat Nb2-11 lymphoma cells is less than 0.1 ng/ml, corresponding to a specific activity of $>1.0 \times 10^7$ IU/mg.
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/µg of rHuGH as determined by LAL method

## Target Details

Target:	Growth Hormone 1 (GH1)
Alternative Name:	Growth Hormone (GH) ( <a href="#">GH1 Products</a> )
Background:	Growth hormone (GH), also known as somatotropin, is a member of a family of growth factors

## Target Details

that includes prolactin, placental lactogens, proliferins, and somatolactin. It is synthesized primarily by somatotropes in the anterior pituitary and is stored in secretory granules. The pulsatile release of GH into circulation is regulated by the concerted actions of the hypothalamic hormones-GH-releasing hormone (GHRH) and somatostatin (SST) - as well as by signals from the periphery - ghrelin and leptin.<sup>4</sup> The human GH cDNA encodes a 217 amino acid (aa) residue precursor protein with a 26 aa putative signal peptide. By alternative splicing, at least four isoforms of GH have been identified. Synonym: Growth Hormone (GH), Human. Formulation: Lyophilized from a 0.2µm filtered concentrated solution with 5mM NaHCO<sub>3</sub>, pH 7.0.

Molecular Weight: Approximately 22 kDa, a single non-glycosylated polypeptide chain containing 191 amino acids

Pathways: [NF-kappaB Signaling](#), [JAK-STAT Signaling](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Regulation of Hormone Metabolic Process](#), [Response to Growth Hormone Stimulus](#), [Regulation of Hormone Biosynthetic Process](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage: 4 °C