

---

## Product Data Sheet

---

Product Name: GH Human, HEK

Cat. No.: GP20330

Batch No.: 1

### Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin.		
Solubility	It is recommended to reconstitute the lyophilized GH in sterile 1xPBS containing 0.1% endotoxin-free recombinant HSA.		
Formulation	The GH was lyophilized from 1mg/ml in 1xPBS.		

### Introduction

GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.

### Biological Activity

The activity was determined by the dose dependent stimulation of the proliferation of rat lymphoma line Nb2-11 cells (prolactin indicator cell line), the ED50 is <2ng/ml.

### Stability

Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GH should be stored at 4°C between 2-7

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Growth Hormone Human Recombinant produced in HEK cells is a non-glycosylated monomer, having a total molecular weight of 22kDa. The GH is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**