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## Product Data Sheet

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Product Name: pGH 22kDa Human  
Cat. No.: GP20326  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GHL; GHV; GH-V; hGH-V; PGH.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Pro-Thr-Ile.		
Solubility	It is recommended to reconstitute the lyophilized Placental HGH in 0.4% NaHCO <sub>3</sub> or water adjusted to pH 9, not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO <sub>3</sub> previously adjusted pH 8-9.		

### 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.

### Stability

Lyophilized GH placental although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution and filter sterilization HGH placental can be stored at 4°C for up to 4 weeks. For long term storage and more diluted solutions

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

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it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Placental HGH 22kDa Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 192 amino acids and having a molecular mass of 22367 Dalton. Predicted pI=7.80. Placental Growth Hormone has diminished lactogenic (prolactin receptor mediated) activity characteristic to pituitary GHs. GH Placental Human Recombinant is purified by proprietary chromatographic techniques.

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