
Product Data Sheet

Product Name: pGH 20kDa Human

Cat. No.: GP20328

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	AFPTI PLSRLFDNAM LRARRLYQLA YDTYQEFNPQ TSLCFSESIP TPSNRVKTQQ KSNLELLRIS LLLIQSWLEP VQLLRVVFAN SLVYGASDSN VYRHLKDLEE GIQTLMWRLD DGSPTGQIF NQSYSKFDTK SHNDDALLKN YGLLYCFRKD MDKVETFLRI VQCRSVEGSC GF		
Solubility	It is recommended to reconstitute the lyophilized Placental Growth Hormone in 0.4% NaHCO ₃ or water adjusted to pH 11, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	pGH 20kDa was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃ previously adjusted pH 11.		

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 Growth Hormone 20K Placental although stable at room temperature for 3

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

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weeks, should be stored desiccated below -18°C . Upon reconstitution and filter sterilization GH 20K pl can be stored at 4°C for up to 4 weeks. For long term storage and more diluted solutions it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Growth Hormone Placental 20kDa Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 177 amino acids and having a molecular mass of 20498 Dalton. Predicted pI=8.20. Growth Hormone 20K placental is devoid of lactogenic (prolactin receptor mediated) activity characteristic to pituitary GHs. GH 20K placental is purified by proprietary chromatographic techniques.

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