
Product Data Sheet

Product Name: GH Human
 Cat. No.: GP20325
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin.		
Amino Acid Sequence	FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS LVYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F.		
Solubility	It is recommended to reconstitute the lyophilized HGH in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GH protein lyophilized from a 0.2μm filtered concentrated solution with 20mM PB, pH 7.0 and 3% Mannitol.		

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

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

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The ED50 was determined by the proliferation assay of rat lymphoma NB2-11 cells and was found to be less than 0.1ng/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg.

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 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.

Background

GH Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids and having a molecular mass of 22kDa. Growth Hormone is purified by proprietary chromatographic techniques.

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