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## Product Data Sheet

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Product Name: GH Mouse  
 Cat. No.: GP20335  
 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 GH; GH-1.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Ala-Met.		
Solubility	It is recommended to reconstitute the lyophilized GH murine in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	MouseGH Recombinant contains 50mM Tris-HCl, pH8.0, 150mM NaCl buffer.		

### Introduction

GH is a member of the prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the GH 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 GHs, 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 GH locus. Mutations in or deletions of the gene lead to GH deficiency and short stature.

### Biological Activity

Recombinant Mouse GH is fully biologically active when compared to standard Human GH which is 3 units/mg.

### Stability

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

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

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Lyophilized GH mouse although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution GH mouse should be stored at  $4^{\circ}\text{C}$  between 2-7 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

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

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