



## Growth Hormone, mouse recombinant (rmGH)

**Catalog No:** 97074  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin

### Background

GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

### Description

Growth Hormone mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 22 kDa. GH is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Mouse recombinant Growth Hormone contains 50 mM Tris-HCl, pH8.0, 150 mM NaCl buffer.

### Solubility

It is recommended to reconstitute the lyophilized GH in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Growth Hormone, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH mouse 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.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Activity

Recombinant mouse Growth Hormone is fully biologically active when compared to standard human Growth Hormone which is 3 units/mg.

### Usage

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