

Rev03
Update: Dec,14,2021

DATASHEET

GH, Mouse

Cat. No.: Z02192

Product Introduction

Species	Mouse
Protein Construction	GH (Phe27-Phe216) Accession # P06880
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by SEC-HPLC
Endotoxin Level	< 1 EU/ μ g of protein by LAL method
Biological Activity	Recombinant mouse growth hormone is fully biologically active when compared to standard human growth hormone which is 3.0 units/mg.
Expression System	E. coli
Theoretical Molecular Weight	22 kDa
N-terminal Sequence Analysis	The sequence of the five N-terminal amino acids was determined and found to be Met-Phe-Pro-Ala-Met.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris-HCl, pH 8.0, 500 mM NaCl buffer.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile 18 M Ω -cm H ₂ O up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Growth Hormone (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.

Synonyms : GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.