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GH

Catalog # PVGS1017

Product Information

Primary Accession	P06880
Species	Mouse
Sequence	Phe27-Phe216
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by SEC-HPLC
Endotoxin Level	
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
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 MΩ-cm H_2O up to 100 □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.

Additional Information

Gene ID	14599
Other Names	Somatotropin, Growth hormone, Gh1, Gh
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.

Protein Information

Name	Gh1
Synonyms	Gh
Function	Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.
Cellular Location	Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.