

Recombinant Human HGH

Catalog Number: HZ-1007 **HEK293 expressed** **Endotoxin-free** **Animal-component free**

Technical Specifications

Species: human	Purity: >95%	Formulation: 1x PBS, See Certificate of Analysis for details
Expression: HEK293	Endotoxin: <1 EU/μg	Gene ID: 2688
Activity: Typically ≤ 0.5 ng/mL EC50	Molecular Mass: 22 kDa, monomer, non-glycosylated	

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Background

Human Growth hormone (HGH), also known as somatotropin, is an integral mitogen for development. It is synthesized, stored and secreted by somatotropic cells within the anterior pituitary gland (PMID 13975314). HGH stimulates growth, cell reproduction, and cell regeneration in humans and other animals (PMID 7079756). HGH stimulates both the differentiation and proliferation of myoblasts, and also stimulates amino acid uptake and protein synthesis in muscle and other tissues (PMID 8203982, 16332656).

Synonyms

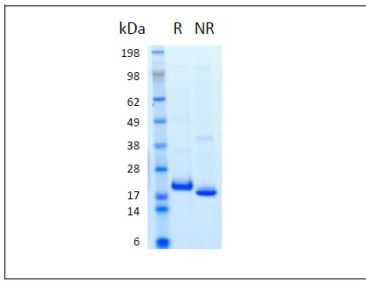
GH, GH N, GH1, GHN, Growth hormone, growth hormone 1, hGH N, Pituitary growth hormone, Somatotropin

For technical support and original validation data for this product please contact:

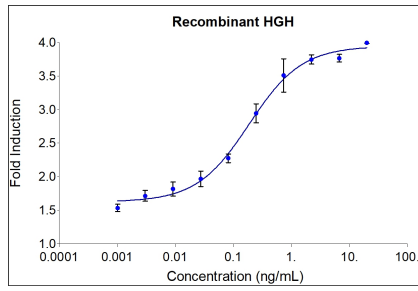
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

Humankine® product line
HUMANZYME
Now part of Proteintech Group®

Selected Validation Data



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



The activity was determined by the dose-dependent stimulation of the proliferation of rat lymphoma line Nb2-11 cells (prolactin indicator cell line) using the Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.