

Product information

Growth hormone, 27-217 aa

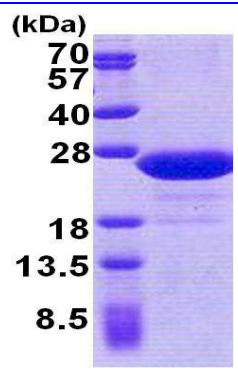
Human, Recombinant, *E.coli*

Cat. No. IBGRH3001

Synonyms: Somatotropin, hGH

NCBI Accession No.: NP_000506

Description: Human growth hormone (hGH, somatotropin), a protein hormone from the anterior lobe of the pituitary gland, comprises a single polypeptide chain of 191 amino acid residues. The growth hormone amino acid sequence varies considerably between species, and non-primate growth hormones have little activity in man. Its main function is the stimulation of somatic and bone growth, as well as an increase in the size and mass of organs and tissues. Recombinant human growth hormone (rhGH) was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

<p>Form: Liquid in 88 mM mannitol, 5 mM phosphate(pH 7.4)</p> <p>Molecular Weight: 22.2 kDa (192 aa), confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p> <p>Activity: Measured in a cell proliferation assay using Nb2 Rat lymphoma cells. The ED50 for this effect is < 0.5 ng/ml.</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Activity Assay</p> <ol style="list-style-type: none"> 1. Cell line: Nb2-11 (Rat lymphoma cell) 2. Maintenance Condition: 10% FBS, 10% HS, 50uM 2-ME, RPMI 1640 3. Assay Medium: 10% HS, 50uM 2-ME, RPMI 1640 (without FBS) 4. Cell Density: 1 x 10⁴ cells/well (96 well plate, final volume 100ul) 5. Starvation : 24hr, Assay medium 6. Incubation Time: 48hr (after sample treatment) 7. Concentration Range: 0.002 ng/ml - 10 ng/ml 8. Detection Method : CCK-8 assay 	

Sequence of amino acids:

MFPTIPLSRL FDNAMLRHR LHQLAFDTYQ EFEEAYIPKE QKYSFLQNPQ TSLCFSESIP TPSNREETQQ KSNLELLRIS LLLIQSWLEP
VQFLRSVFAN SLVYGASDSN VYDLLKDLLE GIQTLMGRLE DGSPTGQIF KQTYSKFDTN SHNDDALLKN YGLLYCFRKD MDKVETFLRI
VQCRSVEGSC GF

General references:

Wickens., *et al.*(1978) *J. Biol Chem.* **253**(7):2483-2495

Goedel. *et al.*(1979) *Proc. Natl. Acad. Sci.* **76**:106-110

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

Chang, *et al.* (1978) *Nature* **275**:617-624

Ullrich, *et al.* (1977) *Science* **196**:1313-1319.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax.: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com