

## Growth Hormone Active Protein | GH active protein

Recombinant Human Growth Hormone

CATALOG #  
**AAA38106**

HOST  
**E Coli**

### PRODUCT SYNONYMS

Growth Hormone; Recombinant Human Growth Hormone; GH Human; Growth Hormone Human Recombinant; GH1; GH; GHN; GH-N; hGH-N; Pituitary growth hormone; Growth hormone 1; Somatotropin; GH active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater than 96.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| Form/Format             | GH protein lyophilized from a 0.2µm filtered concentrated solution containing mannitol and glycine.                                                                                                                                                                                                                              |
| Sequence                | FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSES IPT PSNREETQQK<br>SNLELLRISL LLIQSWLEPV QFLRSVFANS LYGASDSNV YDLLKDLEEG IQLTMGRLED GSPRTGQIFK<br>QYTSKFD TNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F                                                                                                        |
| Sequence Length         | 217                                                                                                                                                                                                                                                                                                                              |
| Physical Appearance     | Sterile filtered White lyophilized (freeze-dried) powder                                                                                                                                                                                                                                                                         |
| Solubility              | It is recommended to reconstitute the lyophilized HGH in sterile 18M Omega-cm H <sub>2</sub> O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                            |
| Biological Activity     | The ED <sub>50</sub> was determined by the proliferation assay of rat lymphoma NB2-11 cells and was found to be less than 0.1ng/ml                                                                                                                                                                                               |
| Preparation and Storage | Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HGH 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. |

### ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GH active protein | <b>Description:</b> GH Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids and having a molecular mass of 22kDa. Growth Hormone is purified by proprietary chromatographic techniques. |
| Product Categories/Family for GH active protein   | Cytokines and Growth Factors; Growth Factors; Growth Hormone                                                                                                                                                                                        |

### NCBI AND UNIPROT INFORMATION

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| NCBI GI #                 | 13027812                                                       |
| NCBI GeneID               | 2688                                                           |
| NCBI Accession #          | NP_000506.2                                                    |
| NCBI GenBank Nucleotide # | NM_000515.4                                                    |
| UniProt Accession #       | P01241; Q14405; Q16631; Q5EB53; Q9HBZ1; Q9UMJ7; Q9UNL5; A6NEF6 |
| NCBI Official Full Name   | somatotropin isoform 1                                         |

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI Official Synonym Full Names | growth hormone 1                       |
| NCBI Official Symbol             | GH1                                    |
| NCBI Official Synonym Symbols    | GH; GHN; GH-N; hGH-N; IGHD1B           |
| NCBI Protein Information         | somatotropin; pituitary growth hormone |
| UniProt Protein Name             | Somatotropin                           |
| UniProt Gene Name                | <b>GH1</b>                             |
| UniProt Synonym Gene Names       | GH; GH-N                               |
| UniProt Entry Name               | SOMA_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-gh-active-protein/growth-hormone/38106>